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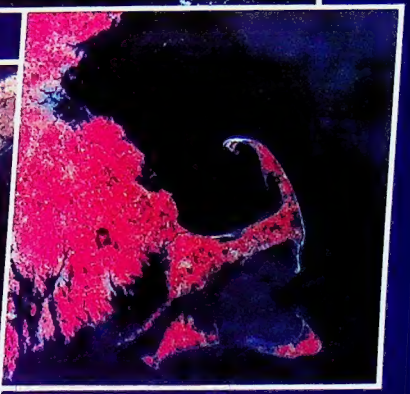
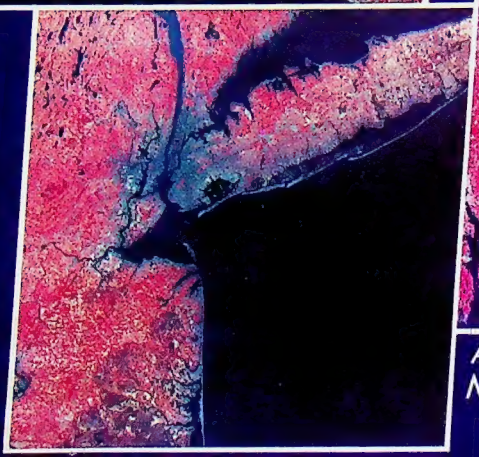
July August 1981 FOR WHEREVER YOU ARE $1.50

GAMES

EYEBALL BENDERS FROM OUTER SPACE

What part of the United States do you see in each photo?





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More satellite photos, page 57

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Gordon Cooper thinks NASA computers are out of this world. But his personal computer is the best on earth.

I've been around computers most of my life, and I'm impressed with the Atari®800™ Nothing so complex has ever been so simple. It's as easy to set up as a stereo. It's so easy to operate, your kids can use it.

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We're looking for people to write children's books

Writing for children is the perfect way to take up writing, says the author of 53 children's books. Your ideas come right out of your own experience. And while it's still a challenge, it's probably the straightest possible line between you and publication — if you're qualified to seek the success this rewarding field offers.

By Alvin Tresselt, Dean of Faculty

IF you want to write and get published, I can't think of a better way to do it than writing books and stories for children and teenagers. Ideas flow naturally right out of your own life experience. While it's still a challenge, the odds of getting that first unforgettable check from a juvenile publisher are better than they are from just about any other kind of publisher I know.

Later on, you may get other checks from other publishers. But right now, the object is to begin — to break into print — to learn the feeling of writing and selling your work and seeing your name in type. After that, you can decide if you want your writing to take another direction.

But after 30 years of editing, publishing, and teaching — and 53 books of my own — I can tell you this: you'll go a long way before you discover anything as rewarding as writing for young readers.

Your words will never sound as sweet as they do from the lips of a child reading your books and stories. And the joy of creating books and stories that young people 'really dig' is an experience you'll never have anywhere else. (In this age of boob tube illiteracy, convenient morality, and plastic values, *do you know of a more important audience?)*

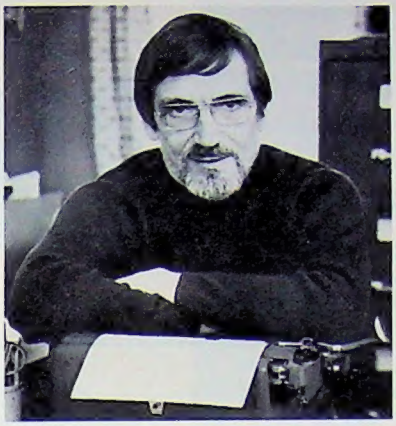
But, that's not all. The financial rewards go far beyond most people's expectations because there's a surprisingly big market out there for writers who are trained to crack it. More than 130 million young people's books are purchased each year. Between 2,000 and 2,500 new titles appear annually and new authors account for as many as half of them.

There are also 250 monthly magazines looking for material for young readers. You can imagine how much writing it takes just to keep them going!

'Am I really qualified?'

Yet two big questions bedevil nearly every would-be writer: "Am I really qualified?" and "How can I get started?"

This is our definition of a "qualified person": It's someone with an aptitude for writing who can take constructive criticism, learn from it, and turn it into a professional performance. That's the only kind of person we're looking for. The reasons are simple: our reputation is built on success, and if prospective students don't have the earmarks of success, we probably can't help them. And we tell them so. It's only fair to both of us.



Alvin Tresselt was Vice President and Executive Editor of Parents' Magazine Press, the first editor of *Humpty Dumpty's Magazine for Children*, and a board member of the Author's Guild. His 53 books for young readers have sold over two million copies.

To help us spot potential authors, we've developed a revealing test for writing aptitude. It's free, and we don't charge for our evaluation. But no one gets into the Institute without passing it. Those who pass and enroll receive our promise: You will complete at least one manuscript ready to submit to a publisher by the time you finish the Course.

When we teach, you learn

I've learned a lot about writing for children and I love it. Now I'm passing my knowledge on to my students so they can profit from it. When I'm not writing my own books I spend my time at The Institute of Children's Literature, a workshop for writers that does only one thing and does it better than any other educational institution I know of: It trains qualified people to write for the young reader.

This is the way I work with my students, and my fellow instructors — all of whom are experienced writers or editors — work more or less the same way.

When you're ready — at your own time and your own pace — you send your assignment to me and I read it and reread it to get everything out of it you've put into it. Then I edit your assignment with a red pencil just the way a publishing house editor would — if he had the time. I return it along with a detailed letter explaining my comments. I tell you what your strong points are, what your weaknesses are, and just what you can do to improve. It's a matter of push and pull. You push and I pull and between us both, you learn to write.

The proof of the pudding

This method really works. I wouldn't spend five minutes at it if it didn't. Last year we received hundreds of letters like these from successful students: "Before taking your Course (which I checked out with the National Better Business Bureau), the short stories I scribbled for my two tiny tots never caught an editor's fancy," writes Emily Burns of Salem, Ore.

"My first sale, to *National Catholic Weekly*, was a Course lesson. Then I sent another Course assignment to a writer's competition and won first prize of $400!"

"My instructor's advice was invaluable in plotting, character, motivation, and dialogue. I am most grateful for her personal interest and encouragement. Best of all she helped me understand my own strengths and weaknesses and how to emphasize the first and remedy the second. Better instruction hath no man than this!" Elizabeth Henley, New Cambria, Mo.

Marilyn Day of Marissa, Ill. says, "I'm proud of this accomplishment. Now I'm no longer a housewife, I am a *writer!*"

And Mary Carruth, Dublin, Cal., writes, "I sent out my first article with a prayer and a hope, and it was accepted. Your Course with its structure and support, has been everything I hoped for and needed."

"When I started this course, I did not really think that I had the ability to write", writes Sister M. Laetitia Mudde, West Haven, Ct., "But my instructor made me believe in myself." I have a file full of similar letters. People like yourself so full of pride they could easily convince you that indeed it is a pity more people — men and women — don't take up writing for children.

Free Writing Aptitude Test offered

To find qualified men and women with an aptitude for writing, the Faculty and Consultants of the Institute have prepared a four-page Writing Aptitude Test. It is offered free and will be professionally evaluated at no cost to you by our staff.

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There is no obligation.

The Institute of Children's Literature
Redding Ridge, Connecticut 06876

Dear Mr. Tresselt: H-13

I am interested in your program to help new writers get started. Please send me your free Writing Aptitude Test and 32-page brochure. I understand I am under no obligation whatever and no salesman will visit.

Mr. Mrs. Ms. Miss

Please circle one and print name clearly

Street

City

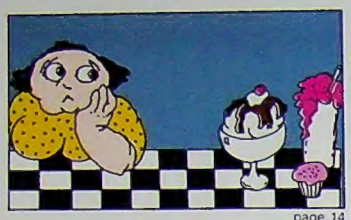
State Zip

Approved by the Connecticut Commissioner of Education

July/August
1981

GAMES

Volume 5, Number 4
Issue 24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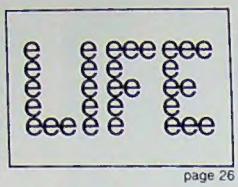
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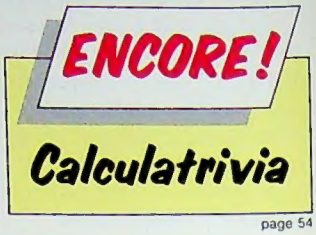

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Difficulty Rating: **Smooth Sailing ★** **Uphill Climb ★★** **Proceed at Your Own Risk! ★★★** **Mixed Bag ★☆**

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LETTERS

Last Things First

Does anyone publish a dictionary with the *last* letters of words listed in order? A book like that would save weary puzzlers zillions of hours and endless eye strain.

Betty Rosenstrater
Nappanee, IN

Herbst's Backword Dictionary for Puzzled People *is available from Alamo Publishers, 221 W. 58 Street, New York, NY 10019.—Ed*

The Truth about Watergate

My fellow "Gamericans," what can I say but nix(!) on the Watergate Book Club (May/June, page 40). Let me make one thing perfectly clear: you won't have *me* to kick around any longer, when it comes to looking for this issue's fake ad.

Jonni Gilman
Farmington, CT

The Contest that Never Was

I know that I'm risking making a complete April fool of myself, but I can't help wondering: is the quest for Ps and Qs in the Fake Table of Contents (March/April, page 72) the hidden contest? My calculations reveal a grand total of 3,738! If I'm wrong, I've enclosed $1,016,000 in fake bills. Can I buy the T-shirt and we'll call it a day?

Patricia Myers
Astoria, OR

I do believe I've found it at last! In the fake Table of Contents, the clue for the hidden contest reads, "It's somewhere in *Psychology Today*." Then, in "A Subtitle Primer" (page 23), *Psychology Today* is the answer to #13. So naturally, I flipped to page 13, where you ask us, "What's Up?" So my hidden contest entry is: a cannonball, a hot air balloon, a porcupine, a grand piano, a kettle, the Eiffel Tower, and a tiger. Do I win?

M.J. Darkishiri
Calgary, Alberta

Is this issue's hidden contest in "Out of Sight" (page 27)? You didn't mention the contest in the Table of Contents, so I'm assuming it's "nowhere to be seen," and written in "disappearing ink." If I'm right, please don't send me an invisible T-shirt—I want something I can wear in public!

Alicia Wilkerson
Dover, DE

Like all of the other puzzles described in the Fake Table of Contents, the hidden contest was indeed "nowhere to be seen." Sorry folks, no T-shirts on this one.—Ed

Funny You Should Ask . . .

I've noticed puzzles in past issues by such formidable types as "A. Braine" and "Sarah Bellum." Where do these people get their names, anyway?

"Ma" Doola and N. Sefalon
New Haven, CT

Playing the Fools

The March / April issue was a good gag. I can't help but think of some poor soul, reading the issue in an airport, library, or any public place—being carted away by three guys in white suits—yelling, "It's not me! It's the magazine that's crazy!"

Mike Schubauer
Valentine, NE

My April-May issue is sure a mixed-up affair. The cover and Table of Contents are both fine, but from there on is chaos—it's all upside down, page 1 is at the end, page 72 up front . . . were they all like that or do I have a unique copy? If so, I'll save it for posterity.

Mrs. E.T. Hannah
Port Charlotte, FL

They're all like that. Perhaps the prank succeeded beyond our expectations . . . Happy April Fools—Ed

One Hundred Percent Proof

As a new subscriber, and a one hundred percent Scot, may I take this opportunity to set the record straight on exactly what a Scotsman wears under his kilt (March/April, page 6). Let me assure you that *nothing whatsoever* is worn underneath, and everything is in absolutely first-class, working order!

T. MacDonald Williams
Manning, IA

Beyond Red Herrings

"Colorful Creatures" (March/April, page 42) prompted me to pull out my crayolas and offer these additions to your kaleidoscopic kingdom. Can you guess the creatures these clues suggest?

1. Paul Bunyan's pal
2. . . . jumps over the lazy dog
3. She ain't what she used to be
4. Steinbeck's nag
5. . . . baked in a pie

Ellie Eastman
Chatham, NH

Answer Drawer, page 60

(Continued on page 6)

GAMES

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(Continued from page 4)

Dela-Where?

Hooray! Somebody knows we're here. You don't know how delighted I was to see Delaware mentioned in one of the questions in "Mappit" (March/April, page 24), even though we *are* smaller than Yellowstone National Park. The recognition really helped—even a proud native's ego can be deflated by all those people who always ask: "You're from where? Delaware? Isn't that in Pennsylvania somewhere?"

Sherri Butler
Newark, DE

Burma Shave Signs Off

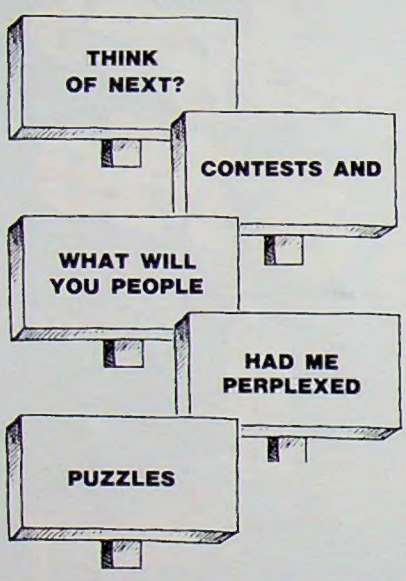
We enjoyed "At the Burma Shave Warehouse" (March/April, page 26) so much that it prompts us to add:

Burma Shave
Was Lots of Fun
But Where Are Some More
When These Are Done?

Dick and Linda Davenport
Knoxville, IA

Below is another, original Burma Shave sign series that we received in five separate envelopes, on five consecutive days, from Michael Rios of Chicago. Can you rearrange the signs to form Mr. Rios' message?—Ed.

Answer Drawer, page 60



Napoleon in Exile

Your review of "Napoleon at Waterloo" (November/December 1980, page 53) stated that the game could be obtained at no cost by writing to SPI. As a novice but willing wargamer, I took SPI up on the offer—but I haven't heard anything since I wrote last November. What's up?

Richard Yannetti
Stamford, CT

Due to an overwhelming number of responses to this offer—nearly 13,000 requests—SPI is temporarily out of stock on Napoleon at Waterloo. *However, they assure us that they are reprinting shortly and will be mailing copies to all who requested the game.*

—Ed.

LAUNDRY BASKET

If we publish your letter in Laundry Basket, we'll send you a Games *T-shirt.*

Mistakes: March/April

★ One needs to be more than an expert at backgammon to make the first moves you've described in Wild Cards ("In the Beginning," page 34); one has to cheat! The numbers 1-12 running across the middle of the diagram from right to left are backwards; the numbers 1-12 running along the bottom of the diagram from left to right are correct.

Rondi Bloom
Ventura, CA

★ In order to get one of the most fashionable T-shirts, I would like to point out that there is no magazine subtitled "Fashions for Men," as indicated in both the puzzle and illustration of your "Name That Magazine Contest" (page 23). The correct subtitle for *Gentlemen's Quarterly* is "Fashion for Men."

Thor Stockman
San Francisco, CA

★ Sorry, "wong" spelling for clue 103 across in "Shady Dealings" (page 41). Ms. Wong is Suzie, not Susie.

Hap Erstein
Gaithersburg, MD

EVENTS

Before attending any of these events, write or call to verify dates, places, eligibility, entry fees, etc. Send a stamped, self-addressed envelope with your request.

Backgammon The Third Annual Interclub Backgammon Championship, in Monte Carlo, Monaco, July 11-12. This glamorous event is sponsored by Black & White Scotch, and each player gets a shot—at the $10,000 purse, that is. Contact: Francesca Parkinson, NEBC, P.O. Box 366, North Falmouth, MA 02556, or call (617) 563-5787.

Checkers Southern States Open Checker Tournament, in Elizabethtown, Kentucky, on July 27-31. This yearly battle of the red and the black will determine the Southern States Checker Champion for 1981-82. Contact: W.B. Grandjean, American Checker Federation, 3475 Belmont Avenue, Baton Rouge, LA 70808, or call (504) 344-8429.

Contesting The National Contesters Association will hold its 42nd annual convention, in Charleston, South Carolina, July 12-15. *Games* Contributing Editor Gloria Rosenthal will speak on the art and craft of winning, and run a few contests. Contact: Carolyn Burnett, 220 Hampton Hall Lane, Conroe, TX 77302.

Cribbage Eighth Annual National Cribbage Tournament, in Raleigh, North Carolina, August 1-3. A field of 256 players—chosen on a first-come, first-served basis—will peg their way toward a share of the $7,000 purse. Contact: Nick Pond, (919) 834-0595.

Dominoes The Fourth Annual "Texas-Style" Domino Tournament, in Big Spring, Texas, July 24-26. In Texas, even dominoes are big—well, that's *one* rationale for requiring two-player teams in this tourney. Contact: Harold Hall, Box 1391, Big Spring, TX 79720, or call (915) 263-0771.

Frisbee World Frisbee Disc Championship, at the Long Beach Vets Memorial Stadium, in Long Beach, California, August 30. Top hurlers from 14 countries—and their canine counterparts—will toss and catch for the title. Afterwards, spectators are invited to meet and mingle with the champs. Contact: International Frisbee Disc Association, Box 970, San Gabriel, CA 91776.

Juggling The International Jugglers' Association is holding its 34th annual convention at Case Western Reserve University, in Cleveland, Ohio, July 14-19. Catch it if you can. Contact: Terry Butler, 1276 East 108th Street, Cleveland, OH 44110, or call (216) 531-6927.

Lumberjack Games Lumberjack World Championships, at the Lumberjack Bowl in Hayward, Wisconsin, July 24-26. Logrollers and other woodsmen gather to chop, shinny, and roll (see July/August, 1980, page 12). Contact: Lumberjack World Championships, Hayward, WI 54843.

New Games For the fifth year, there will be workshops around the country on rule change and creative play. Contact: The New Games Foundation, P.O. Box 7901, San Francisco, CA 94120, or call (415) 668-6901.

Othello The Fifth Annual International Championships are already underway, with local tournaments being held throughout the country. Contact: Emily Whelan, at Gabriel's Othello Hotline, (212) 683-7810.

Rafting Raft Race on the Genesee River, in Rochester, New York, on June 27-28. A flotilla of rafts, from river queens to rubber schooners, will cruise for fun and profit. Contact: Raft Race, WBBF, 850 Midtown Tower, Rochester, NY 14604, or call (716) 222-4466.

Wargaming Here's a cross-country calendar of wargaming bonanzas:

- Pacific Origins, the seventh annual national wargaming convention, in San Mateo, California, July 3-5. Contact: Pacificon, P.O. Box 5548, San Jose, CA 95150.
- CWA-Con '81, at the Northlake Hotel in Northlake Illinois, July 16-19. Contact: Chicago Wargamers Association, P.O. Box 10397, Ft. Dearborn Station, Chicago, IL 60610.
- GenCon East, in Cherry Hill, New Jersey, July 23-26. Several thousand D&D'ers expected. Contact: Gencon East Convention, P.O. Box 139, Middletown, NY 07748.
- Gencon XIII, at the University of Wisconsin at Kenosha, August 21-24. Five thousand players from around the globe are expected at this, the largest of the fantasy role-playing tournaments. Contact: William J. Niebling, TSR Hobbies, Inc., P.O. Box 756, Lake Geneva, WI 53147, or call (414) 248-3625.

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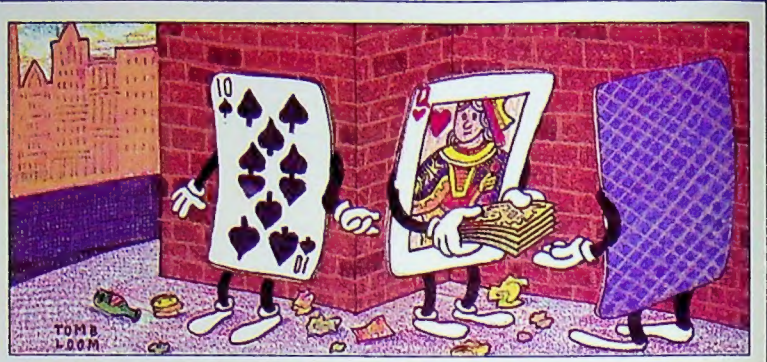
GAMEBITS

Edited by Curt Slepian

THREE CARD MONTE: A LOSING PROPOSITION

Red card I win. Black card you lose. It doesn't matter what you choose.



Illustrations by Tom Bloom

This *should* be the dealer's come-on for Three Card Monte, but of course it isn't. Played on the streets of most major American cities, the game came to the United States from Mexico in the early 1800s. It's still the fastest way to lose your shirt.

Three Card Monte is a variation of the old shell game Abbott and Costello pulled on carnival goers. There are three big differences. First, Monte is played with three crimped cards (usually two black tens and a red queen), not walnut shells and a pea. Second, the stakes are much steeper—bets average ten or twenty dollars. And third, the dealers, known as "broad tossers" (the broad being tossed is the queen—no way to treat a lady!) are decidedly less good-natured than the two film clowns.

The game itself is seemingly simple. The broad tosser takes the three cards from the cardboard box he has set up on a street corner. He shows his audience the two tens and the queen. Then, taking two cards in his right hand and one in his left, he begins to flip them down rhythmically in cross-handed motions, always ostentatiously, first dropping the bottom card from his right hand. After a few flips, with all three cards face down, the crowd gets its chance to find the queen. Seems innocent enough. . . .

But in this game the hand *is* quicker than the eye. What the untrained spectator doesn't see on the last toss is the dealer deftly dropping the top card from his right hand before he drops the bottom one. Voilà! The queen becomes a ten. You lose.

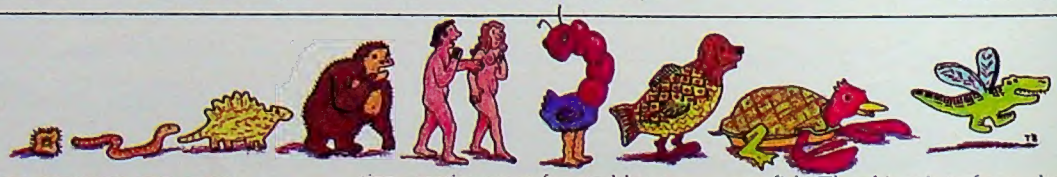
Even the streetwise have been suckered into Monte games. Most dealers employ shills whose job is to win a few hands and tempt others to join in. Even then, the shill's duties are far from over. Consider, for example, the "bent ear ploy."

After the shill loses a few hands, he accuses the dealer of cheating and knocks one of the tens off the playing surface. While the dealer is retrieving the card, the shill bends up the corner of the queen and shows it to the crowd. After the shill wins a few hands by selecting the dog-eared queen, the dealer refuses to play him and turns to the gullible "mark" they've been setting up.

What the mark doesn't know is that all of the cards have flexible corners. The dealer picks up the cards and as he straightens the corner of the queen with the tip of his finger, his knuckle is bending up the corner of a ten. The mark then bets on the card with the bent corner and loses.

Even if you know about these tricks, the dealer and the shill have a series of codes to swindle you further. Occasionally, if they think you are about to pick a winner, the shill will try to get a bet down first, or one of the dealer's lookouts/bodyguards will scream "Police!" and the game will quickly fold. If you *should* outwit the swindlers, don't be surprised if your winnings are recovered as you turn a dark corner.

—Paul H. Clolery



THE ORIGIN OF THE SPECIOUS

Forget Darwin. Throw *Genesis* out the window. Evolution can be explained by "un-natural selection." At least it is in *Quirks*, a strategy game from Eon.

In *Quirks*, evolution begins by drawing "Trait" cards, each of which pictures a different specialized adaptation—rooting snout, fur, stealth, etc. Players then combine cards to create unlikely looking mutations called "Quirks." Put the head of a snake on the torso of a camel on the tail of a scorpion and you have a "Pamling," a beast perfectly adapted for desert life. Or, in a whimsical mood, put together a bizarre beast like the "Croovish," part parrot, part horse, part fish. The object is to form a herbivore, carnivore, and plant that, according to an objective rating scale, prove better suited to existence in a given climate than those of your opponent. It's survival of the flakiest.

Creationists and scientists alike will find *Quirks* indisputably enjoyable. To order, send $13 to Eon Products, 96 Stockton St., Dorchester, MA 02124.—C.S.

Photo by Stan Fellerman

Some of these foods aren't kosher. Can you find the fakes? *Answer Drawer, page 60*

WHAT FOODS THESE MORSELS BE

At Iwasaki Images in Torrance, California, you can have your cake—but you can't eat it. That's because Iwasaki's twenty chefs are dedicated not to *haute cuisine* but to the art of *haute* food fakery. Instead of flour, meat, and vegetables, they use vinyl to create culinary illusions for restaurant displays, all guaranteed to make your mouth water.

Does Iwasaki have a secret recipe for successful fakery? It could be the complex molding and coloring techniques that have been developed and refined since the company was founded in Japan over forty years ago. Or it could be the time they take to make each dish just right. Indeed, Iwasaki could hardly be accused of producing fast foods Even a modest meal of a burger and French fries takes one or two days to prepare, and some custom-made hors d'oeuvre platters take up to a week!

The result of their labors is a large menu of extraordinarily delicious-looking phoney foods. From grilled hot dogs, spaghetti, and enchiladas, to fried shrimp, deviled eggs, and a BLT, Iwasaki "cooks" to order. Movie and television production companies often request whole banquets for use on shows. According to Gary Northrop, Iwasaki's national manager, any food that isn't eaten on shows such as *The Love Boat* and *Fantasy Island* is fake.

If you're not a restaurant owner or a TV producer, but would just like to savor the looks on your friends' faces when they try to eat a piece of vinyl chocolate cake, shop at Iwasaki. But be forewarned: if they start a food fight and throw the cake at you—duck.

Iwasaki Images of America, 19330 Van Ness Ave., Torrance, CA 90501.

—Nicole Gregory

WHO PUT ARSENIC IN THE VISCOUNT'S PEPPERMINTS?

The beautiful Lady Malinsay and her lover, Norm, had a motive for murder, as did McGregor, the volatile Marxist, and Purbright, an impetuous, jealous artist, and the mysterious foreigner, Gründl. So who committed *The Malinsay Massacre*? The facsimile edition of this 1930s English murder mystery by Dennis Wheatley answers the question—but not before the reader gets to play detective to the hilt.

Among mystery novels, *The Malinsay Massacre,* along with Wheatley's other books, *Murder Off Miami* and *Who Killed Roger Prentice?*, is unique Affixed to the pages are the actual pieces of evidence required to solve the crime. You thumb through telegrams and correspondence, turn the pages of a real newspaper for an account of the deaths, finger some perplexing photographs, and even swallow a (nontoxic) arsenic pill.

Special effects aside, each book stands on its own merits as a mystery novel. Even after deducing like crazy, most readers will have to break the seal at the back of the book in order to discover that the murderer is . . . is . . .

The Malinsay Massacre, Murder Off Miami, and *Who Killed Roger Prentice?* by Dennis Wheatley, Mayflower Books, 575 Lexington Ave., New York, NY 10022, $17.95 each.

—C.S.

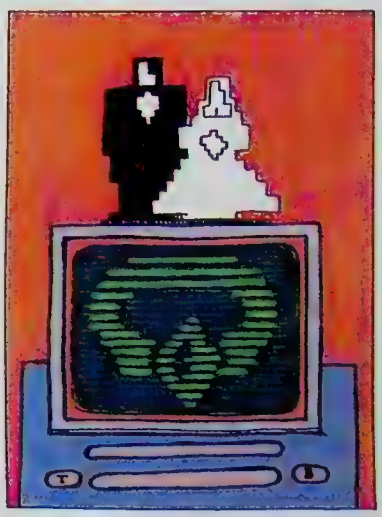
LOVE AT FIRST BYTE

Some heartwarming news from the world of home computers: it's now possible to plight your troth cybernetically. "Society is becoming more and more automated," explains the Reverend Reinhard "Ron" Jaenisch, a Universal Life minister from Sunnyvale, California. Last Valentine's Day the good reverend made both theological *and* technological history by conducting a wedding ceremony on his church-owned Apple II computer.

"It was easy," says Jaenisch. Since Jaenisch's home/church is in the heart of California's famed Silicon Valley, it was no problem obtaining just the right program. "A bigwig in a major semiconductor company did it for me," says Jaenisch. "The bride and groom type in their names and indicate which ceremony they want: ring for the bride, ring for the groom, ring for both, or no ring." The computer then flashes on its screen the two-minute long Universal Life marriage ceremony (an excerpt: "the best and most important relationship is between two human beings"), and if appropriate, asks the happy couple to "place rings on my console to be blessed." At the climactic moment, when more traditional ceremonies demand the time-consuming "I do," Jaenisch's congregants merely reach down and press the "Y" button. Pressing "N" or hesitating promotes a nervous beeping and the words "You are not married."

So far all four of Jaenisch's Apple ceremonies have turned out happily, but the reverend is nothing if not farsighted. Although he has no plans to hook up remote terminals, "I am thinking," he says, "of whipping up a program for divorce."

—A.M.



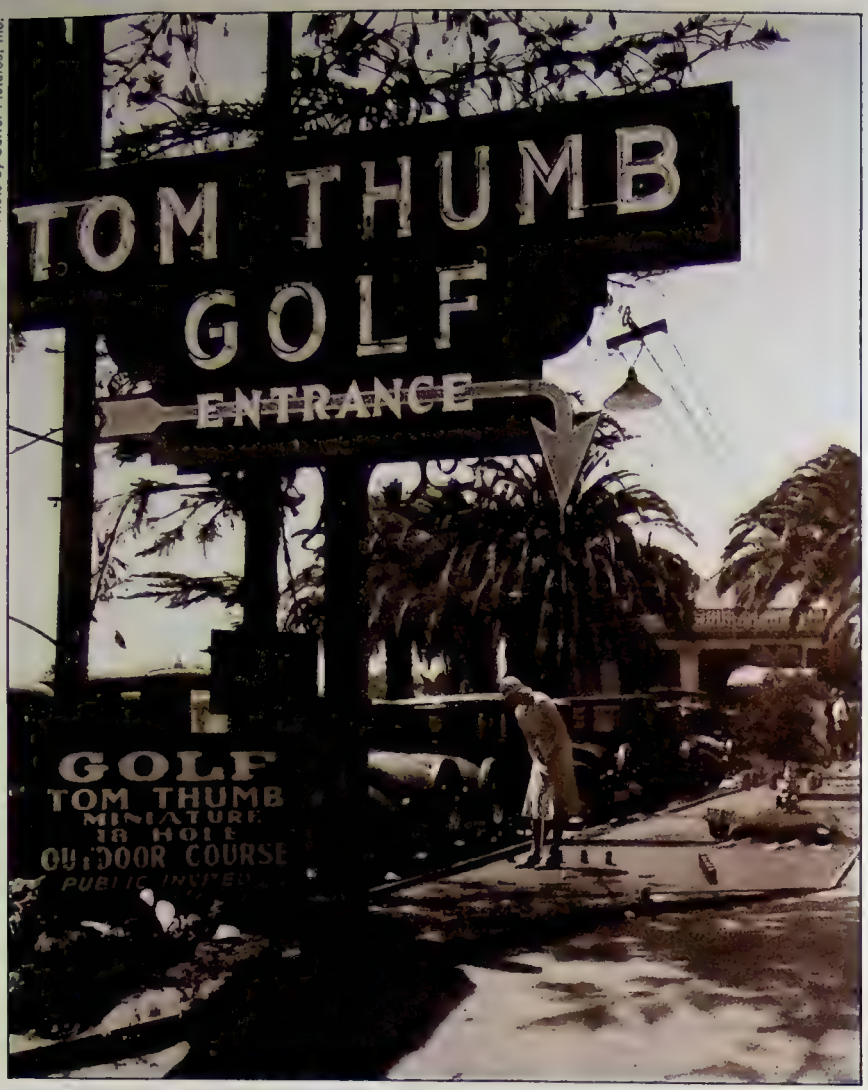


Photo by Culver Pictures, Inc.

LET US NOW PRAISE

MINIATURE GOLF

by Robert Abbott

It's a sport no one takes seriously. There are no superstars, no televised tournaments, not even any record books. But the game that began as tomfoolery endures as American folk art.

Like Rodney Dangerfield, miniature golf gets no respect. Maxi-golfers snicker at its mere mention, believing their demanding game to be vastly superior to the pint-sized version. But while golf has inherited from big-time sports an emphasis on dogged self-improvement and professionalism, miniature golf is void of any dreary Puritan work ethic. Sure, some miniature golf operators try to promote competitive matches, but you are not likely to see the U.S. Miniature Golf Open on Wide World of Sports. No one strives to become a great miniature golfer, no one writes instruction books for the novice. With miniature golf, it's not if you win or lose, but how you stroke your way through a crazy hazard—parallel walls, a 360° loop, or an incline that drops into a maze.

Miniature golf is a game that has always been maligned and misunderstood. Considered a ludicrous offshoot of the "real" game, mini-golf was described in a 1930 *New York Times* editorial as "nitwit golf," a "present tomfoolery" which would not long hold public favor. Yet the origins of conventional and miniature golf are the same. The first version of golf, the Roman *paganica*, was by necessity played on fairly short courses—a burly centurion would probably have knocked the stuffings out of his feather-filled golf ball on a long drive. In Scotland small turf courses (ancestors of today's Pitch & Putt and Par 3 courses) coexisted with larger ones early on. And traditionally, country clubs and athletic clubs have provided members with outdoor and indoor practice putting surfaces.

The modern version of miniature golf appears to have been the brainstorm of Long Island golf pro Charles Mothersill. Built in 1925 and overlooking Grand Central Station, his 18-hole indoor course was so profitable that it inspired entrepreneurs Drake Delanoy and John Ledbetter to construct 150 similar indoor and outdoor courses. The obstacles created by these golfing enthusiasts were simply diminutive sand traps and water hazards—a 6-inch deep brook stocked with goldfish, for example. The most common hazard on their New York City rooftop courses was to pedestrians below who had to dodge a shower of sand and golf balls. Clearly, though, the two men recognized the game's economic potential.

Delanoy and Ledbetter spread the gospel of miniature golf from New York to Chicago, but Garnet Carter gets credit for making the game a worldwide fad. Carter, an astute Tennessee real estate developer, decided to build a miniature golf course at his Fairyland Inn on Lookout Mountain outside Chattanooga. Rather than level the surrounding landscape, Carter incorporated the existing boulders and steep slopes into the course—and threw in everything but the kitchen sink. Unusual hazards made of concrete, tile, hollowed-out logs, and sewer pipes turned sport into novelty, competition into family frolic. Carter was quickly commissioned to build three more courses, one of which made back its $2,000 investment in three weeks.

With its long fairways, grass playing surface, and occasional hazardless hole, Carter's original course (since bulldozed and turned into a parking lot) was somewhere between golf and today's minia-

© 1979 by John Margolies, ESTO

Par for the course: Even if you pass the rabbit test at Wacky Golf in N. Myrtle Beach, S.C., you still have to contend with a dinosaur.

ture game. When Ledbetter and Delanoy later joined Carter to form the Tom Thumb Golf Company, they changed the game to its current form by abbreviating playing distances and highlighting the hazards at the expense of skill. This development had a dramatic impact on the game's popularity. By 1930, 25,000 courses had sprung up across the country grossing about $125 million. Although Tom Thumb had a hand in many courses, independent operators designed, constructed, and ran the majority of them Using tomato cans, old tires, chicken wire, and even chickens as hazards, these homemade affairs sometimes demonstrated an ingenuity worthy of Rube Goldberg

Striving to attract their share of the huge market, owners outdid each other with elaborate courses and bizarre hazards. The Hollywood Miniature Golf Course in St. Louis boasted three 18-hole courses that wound through dense foliage. After following the ball as it bounced down a ramp and around a bend, a player found himself lost in a jungle of thick trees and vines. In Hong Kong, uniformed caddies teed up the balls, lifted them from hazards, and even counted strokes. At a London course, a caged monkey with a fondness for seizing passing golf balls guarded one hole. A California course similarly employed a bear—a small, tame bear on a chain, but an indication that the craze was getting out of hand.

Miniature golf's expansion was also out of control. As the price of cottonseed hulls, the most common component for putting surfaces, climbed higher than that of cotton, people predicted that minigolfing equipment sales would haul us out of the Depression. Sadly, interest in the game declined and the boom went bust. By the fall of 1931 all but a small percentage of courses went out of business.

After a 20-year hiatus, miniature golf flared again briefly in the early Fifties, and in the last few years has experienced an estimated 20 percent growth rate, only now leveling off. The National Golf Foundation puts the present number of American minicourses at 8,000 to 10,000.

In its relatively brief history, the game has gone through several changes. The putting surface has evolved from unmanageable clay and sand to pressed, green-dyed cottonseed hulls to felt (which shrank in the rain) to today's all-weather synthetic grass—which permits miniature golf to be played outdoors yearround. But a more significant change is the standardization of hazards. While franchising and imitation are in part accountable for this conformity, the primary cause is vandalism. Wanton destruction of costly, delicate machinery and external apparatus has forced many owners to install permanently fitted hazards into cement (funnels, twists, banks, and the like), or to merely dress up mundane courses with gratuitous statues.

But despite this homogeneity, the architecture of miniature golf courses continues to be an enduring American folk art, a living legacy passed down from the game's heyday to the present. Imaginative holes still abound in courses like Wellers in Ocean City, New Jersey, and Cool Crest, in Lincoln, Nebraska. The latter features among its clever motor-driven devices a dragon that rears up at regular intervals. If you time your putt right, the ball enters the creature's mouth and travels through the body and out the tail.

With courses stretching from sea to sea (and even *at* sea—aboard the *Queen Elizabeth II*), the variety of hazards seems endless. But most hazards are actually embellishments of only a few themes. Probably the most common type of hazard is the windmill device, a classic. Revolving blades blocking poorly timed shots can be found in such protean guises as railroad crossing signs, opening and closing doors, weather vanes, and rotating bowling pins. Dogleg holes force the golfer

Unlike one obstacle at a 1930s mini-course, the primate guarding the hole at Jungle Golf in Long Branch, N.J., isn't flesh and blood. But the "blind" putt here might make you go ape nonetheless.

Photo by Robert Abbott

to bank the ball at maddening angles, while tunnels cutting through model churches, farmhouses, or monuments require a sure stroke. Perhaps the most frustrating hazard is the ramp. A misjudged putt shot up an incline toward a funnel, or through a mock pinball machine replete with bumpers, often rolls back to the tee, leaving the mini-golfer teed-off. He can, however, lower his bloodpressure with the loop-de-loop—which requires more brute strength than finesse. In fact, miniature golf is such a fine way to let off steam that inmates at the State Correctional Institute for Women in Clinton, New Jersey, recently built a course for their exclusive use.

In New York City, miniature golf has even advanced beyond the realm of folk art into the avant garde. In 1978, when an art gallery there exhibited an abstract nine-hole golf course titled "Obstacles," gallery-goers became active participants. They could putt a hole-in-one along a grooved stainless steel beam, putt through the limbs of a papier-mâché nude, or, in a multimedia hole called "Puttputt," they could aim the shot around a TV set half-buried in the putting surface and watch the progress of the ball on another monitor. If the art world really embraces the game, golfers may someday be overheard saying, "I may not know much about art, but I know what I like to play."

Even if miniature golf doesn't become the art form of the Eighties, we'll probably find it still putt-putting along at decade's end. Which raises the question: What accounts for the game's appeal? After all, no one takes it seriously. It isn't played in posh country clubs, and no one ever consummated a business deal over a round of miniature golf. The sport has no record books or star players doing American Express commercials. Perhaps miniature golf is only good for a laugh—and that's reason enough to love it.

Robert Abbott is a game inventor. Two of his games, Eleusis *and* Epaminondas, *were described in previous issues of* Games

First Prize
Fore ;par Table Golf from World Wide Games
Eight Honorable Mention Prizes
A Games T-shirt

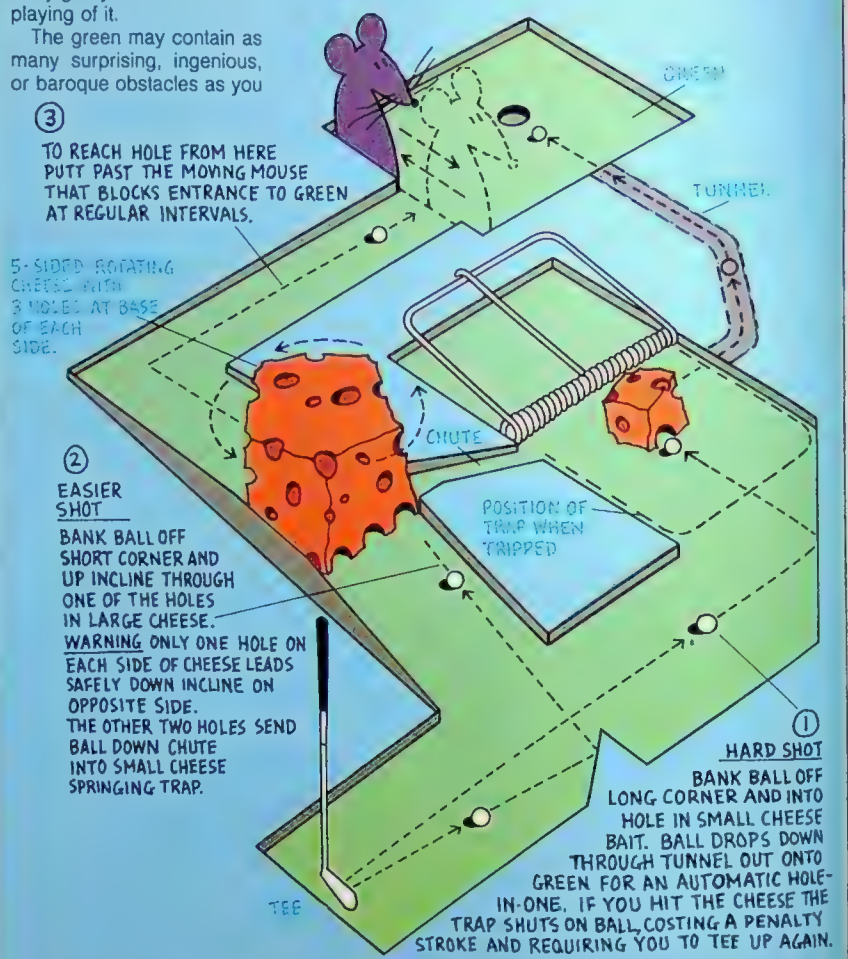
A GAMES CONTEST

★

DESIGN YOUR DREAM MINIATURE GOLF HOLE

If, like us, you've spent a lifetime searching the world for the ultimate miniature golf hole, seek no further. The hole exists—in your own imagination—and needs only to be realized. So design an amusing, amazing, or in some other way unusual mini-golf hole, like (or unlike) the example below. It can be the kind of hole that might take 1 stroke or 10—and will likely give *you* a stroke in the playing of it.

The green may contain as many surprising, ingenious, or baroque obstacles as you wish, but the hole *must* be playable; the layout doesn't have to conform to PGA guidelines, but it does have to obey the laws of nature. And if there are enough strokes of genius, we'll unveil the front nine of our dream course—the Pebble Beach of mini-golf—in a future issue of *Games.*


GREEN
TUNNEL
3 TO REACH HOLE FROM HERE PUTT PAST THE MOVING MOUSE THAT BLOCKS ENTRANCE TO GREEN AT REGULAR INTERVALS.
5-SIDED ROTATING CHEESE WITH 3 HOLES AT BASE OF EACH SIDE.
CHUTE
2 EASIER SHOT
BANK BALL OFF SHORT CORNER AND UP INCLINE THROUGH ONE OF THE HOLES IN LARGE CHEESE.
WARNING ONLY ONE HOLE ON EACH SIDE OF CHEESE LEADS SAFELY DOWN INCLINE ON OPPOSITE SIDE. THE OTHER TWO HOLES SEND BALL DOWN CHUTE INTO SMALL CHEESE SPRINGING TRAP.
POSITION OF TRAP WHEN TRIPPED
1 HARD SHOT
BANK BALL OFF LONG CORNER AND INTO HOLE IN SMALL CHEESE BAIT. BALL DROPS DOWN THROUGH TUNNEL OUT ONTO GREEN FOR AN AUTOMATIC HOLE-IN-ONE. IF YOU HIT THE CHEESE THE TRAP SHUTS ON BALL, COSTING A PENALTY STROKE AND REQUIRING YOU TO TEE UP AGAIN.
TEE

HOW TO ENTER For each submission, the drawing of the hole and any accompanying annotations, explanations, etc., together with your name and address, must appear on only one side of a single sheet of paper. Artistic and/or technical excellence will not count as heavily as the concept itself, but you will suffer a penalty stroke or two with our judges if any part of your entry isn't crystal clear and legible. (The decision of the judges is, as always, final.) Don't just putter around—send your entry to: **Miniature Golf Contest, Games Magazine, 515 Madison Avenue, New York, NY 10022.** Submit as many entries as you like, but make sure each is on a separate sheet of paper. **Entries must be received by August 3, 1981,** and will become the property of *Games.*

Just listen to them. "She's the first!" "I knew it! I knew it!" "Have they set the date?" You want to tell the world. But first you have to share it with the gang. You've shared perfume and clothes, secrets and dreams—the silly and the serious. And this is serious. There it is, bigger than life, on the third finger of your left hand. Reach out to faraway family and friends. Big news or just a "hello," they love hearing from you.

Bell System

Reach out and touch someone.

THE FILLMORE NORTH PRESENTS

a week of rock 'n' roll music with some of the very best groups from the 1960s and 70s. There are seven big shows—Monday through Sunday night—with two bands playing each show.

To order tickets, you've got to know your bands pretty well. In fact, the promotional posters outside the Fillmore don't even carry their names—just rebus-like drawings suggesting which bands will play each night. The line forms around the corner and plenty of tickets are available. But can you identify the 14 bands depicted on the posters? And then can you match five of them to the lyrics being hummed by their fans?

Answer Drawer, page 60

ROCK 'N ROLL REVIVAL
MONDAY
SUNDAY
"People are strange. when you're a stranger Faces seem ugly. when you're alone"
"I told you not to wander around in the dark I told you about the swans that they live in the park I told you about our kid, now he's married to Mabel"
"Come hear Uncle John's Band by the riverside. We've got some things to talk about Here beside the rising tide."
RIP

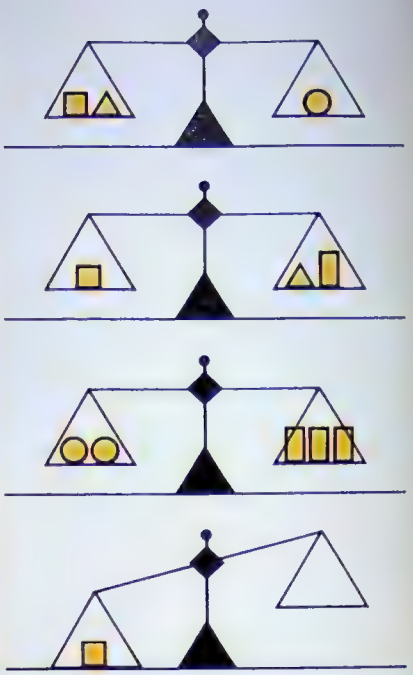
FRIDAY
NEW YORK CITY
METROPOLITAN TRANSIT AUTHORITY
TRANSFER
SATURDAY
WEDNESDAY
THURSDAY
NECESSITY
NECESSITY
NECESSITY
TICKETS
Please allow me to introduce myself. I'm a man of wealth and taste I've been around for long, lost years. Stolen many a man's soul and faith
"I've been searching for the daughter of the devil himself I've been searching for an angel in white I've been looking for a woman who's a little of both I got the feeling that she's nowhere in sight

Answer Drawer, page 60

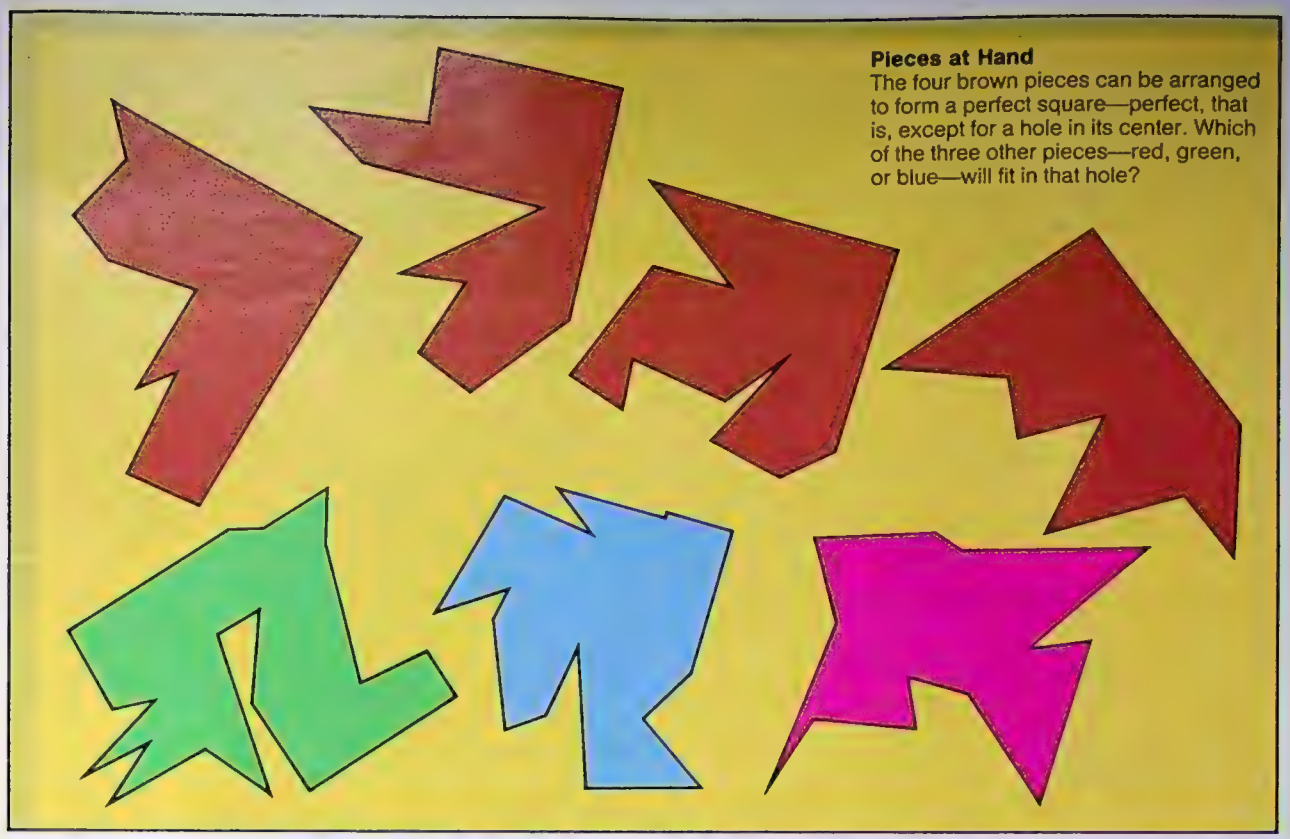
BEGUILERS

Turnabout
Without using a mirror: Can you tell which of these would actually say something if you *did* hold it up to a mirror?

Balancing Act
If the first three scales balance perfectly, how many similarly shaped blocks—either all round, all rectangular, or all triangular—will balance the square block on the fourth scale?

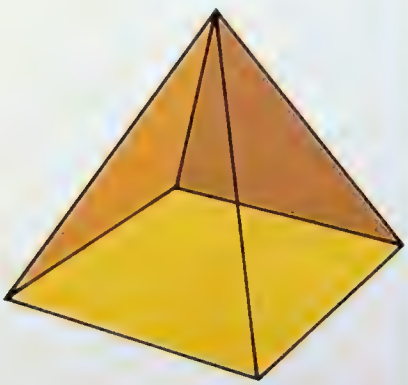


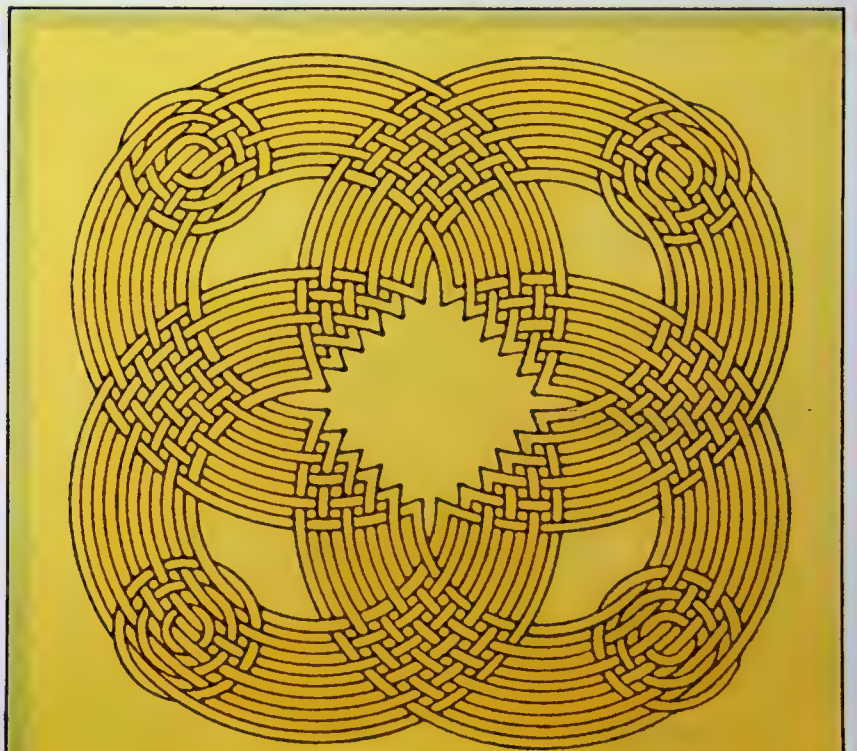
Nasty Letter
Which of the seven letters doesn't belong in this group?



Pieces at Hand
The four brown pieces can be arranged to form a perfect square—perfect, that is, except for a hole in its center. Which of the three other pieces—red, green, or blue—will fit in that hole?

The Magic Pyramid
Can you label each of the pyramid's eight edges with a *different* number from 1 through 10, so that the sum of the edges meeting at each vertex is 16?





Strip Tease
How many individual strips of material are woven together in the design?

Turnabout, Balancing Act, and Pieces at Hand are by Henry Hook; Nasty Letter and Strip Tease are by Pierre Berloquin; and The Magic Pyramid is by David Pope.

IT COSTS AN ARM AND A LEG

THE ASK A SILLY QUESTION QUIZ

Lettering by John Rea

by Randy Cohen

Fit as a fiddle . . . crazy as a loon . . . quick as a wink. Common phrases we use without a second thought. But did you ever stop to consider just how fit a fiddle is or how crazy a loon? Or how quick a wink might be? We have. As a matter of fact we've collected 14 overworked expressions to see if you can guess their literal meanings. May you be as wise as an owl—or at least have the luck of the Irish. *Answer Drawer, page 63*

1. How blind is a bat?
a) Totally blind
b) Partially blind
c) Venetian blind
d) It depends upon who's swinging it

2. How long a way is it to Tipperary?
a) 4,410 miles from Kansas City, Kansas
b) A grenade's toss from Belfast
c) 3,381 miles from Manhattan
d) 358 miles from Gloccamora

3. How cheap is a cheap joke?
a) $889 minimum per sketch on *The Carol Burnett Show*
b) "Take my wife—please!"
c) $45 per joke used on *The Tonight Show*
d) Free if you're Milton Berle

4. What is the cost of an arm and a leg?
a) A leg of lamb costs about $8.50 a pound
b) The Bionic Man's arm and leg cost three million dollars
c) Venus de Milo's recently discovered arms were auctioned for four and a half million dollars
d) At a mannequin supply house arms go for $18.50, legs for $100

5. How much is a bellyful?
a) 8 quarts for a pregnant woman
b) 2 quarts for the average adult
c) Howard Cosell expounding on anything
d) 5 quarts for the average male

6. How many is as many as the hairs on your head?
a) For brunets like Ronald Reagan, about 200,000
b) For carrot-tops like Lucille Ball, about 75,000
c) For blondes like Goldie Hawn, about 140,000
d) For ex-catchers like Joe Garagiola, about 55

7. How early is the early bird?
a) It rises about a half hour before dawn
b) It rises at sunrise
c) It gets up whenever the worm does
d) It always takes a 6 A.M. wake-up call

8. How high the moon?
a) 153,758 miles from earth during a new moon
b) The equivalent of three billion McDonald's cheeseburgers stacked end to end
c) Highest recorded moon is out the 20th floor of Delta Phi
d) On the average, 238,857 miles from earth

9. How deep is skin deep?
a) $\frac{2}{3}$ to $\frac{3}{4}$ inch deep
b) $\frac{1}{16}$ to $\frac{1}{8}$ inch deep
c) It varies: some people are thick-skinned, others thin-skinned
d) $1\frac{3}{4}$ feet for an elephant

10. How slow is a snail's pace?
a) Brazilian tree snails move one foot per minute
b) Damn fast when Julia Child eyes it hungrily
c) Land snails move about two inches a minute
d) As slow as most Amtrak express trains

11. How fast is greased lightning?
a) It varies with air temperature
b) 186,000 meters per second
c) 299,792 kilometers per second
d) 2,000,000 miles per second if it's greased with Crisco

12. When do the swallows come back to Capistrano?
a) Annually on March 19
b) Swallows have never been sighted in Capistrano
c) Six days before the equinox
d) Whenever Pat Boone warbles the song

13. How would you drink if you drank like a fish?
a) Like Dean Martin
b) Like Carry Nation
c) With fin-esse
d) Till you're stewed to the gills

14. How light is a feather?
a) Duckfeathers weigh .013 to .063 grams
b) Downfeathers weigh upwards of 3 to 4 grams
c) *Horsefeathers* is light entertainment
d) The rare feathers of the Rara Avis weigh about .00001 to .00002 grams

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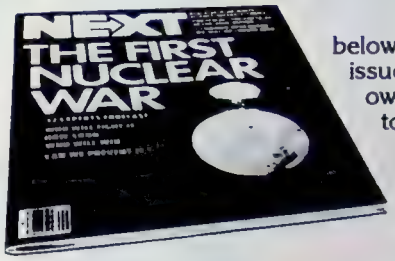

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SPLIT PERSONALITIES

by Ken Robbins

When they get to making speeches, politicians have an unfortunate way of all sounding the same. Their faces, though, are distinctive. Or are they? We've taken six familiar faces, cut them in three, and rearranged the pieces into the composite photographs you see here. Can you make out who's who in each of them? Hint: In the great race of American politics, five of these gentlemen have been number one and one has been number three (or was that number five?)

Answer Drawer, page 6

Edited by Will Shortz

PENCILWISE

Illustrations by Anders Wenngren

The Spiral ★★

by A. Braine

This is a double-dealing puzzle. The spiral's Inward clues yield a sequence of words to be entered counterclockwise in the spaces from 1 to 100. The Outward clues yield a different set of words to be entered clockwise from 100 back to 1. Write the answers in, one letter per space, according to the numbers beside the clues. The puzzle will soon have you coming and going. Keep track of which way you're proceeding, and have many happy returns.

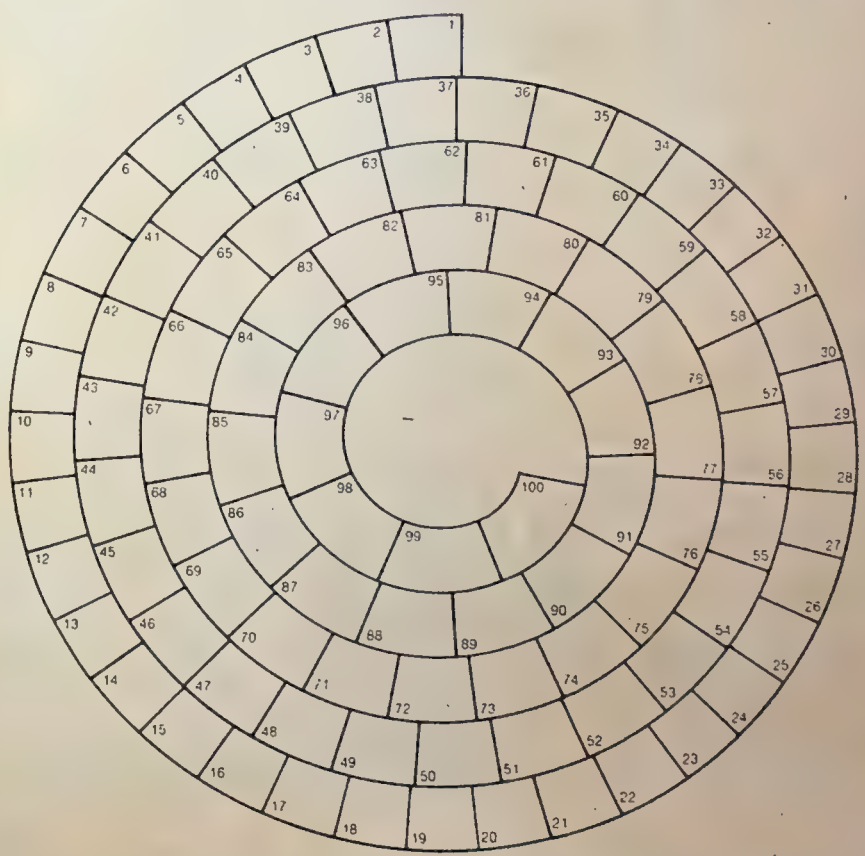
Answer Drawer, page 60

INWARD

1-6 Outer tooth layer
7-10 Naked
11-18 Put off until later
19-21 Unit of work
22-28 Held in high esteem
29-34 Polar covering
35-38 Painful
39-43 Up and about
44-48 Pull out, as feathers
49-53 Dinner à la ____
54-63 Auto combustion device
64-70 Electrical power, as measured by the meter
71-78 Money taken in
79-85 Honeymoon "Falls"
86-90 "Filthy" money
91-100 Propped up

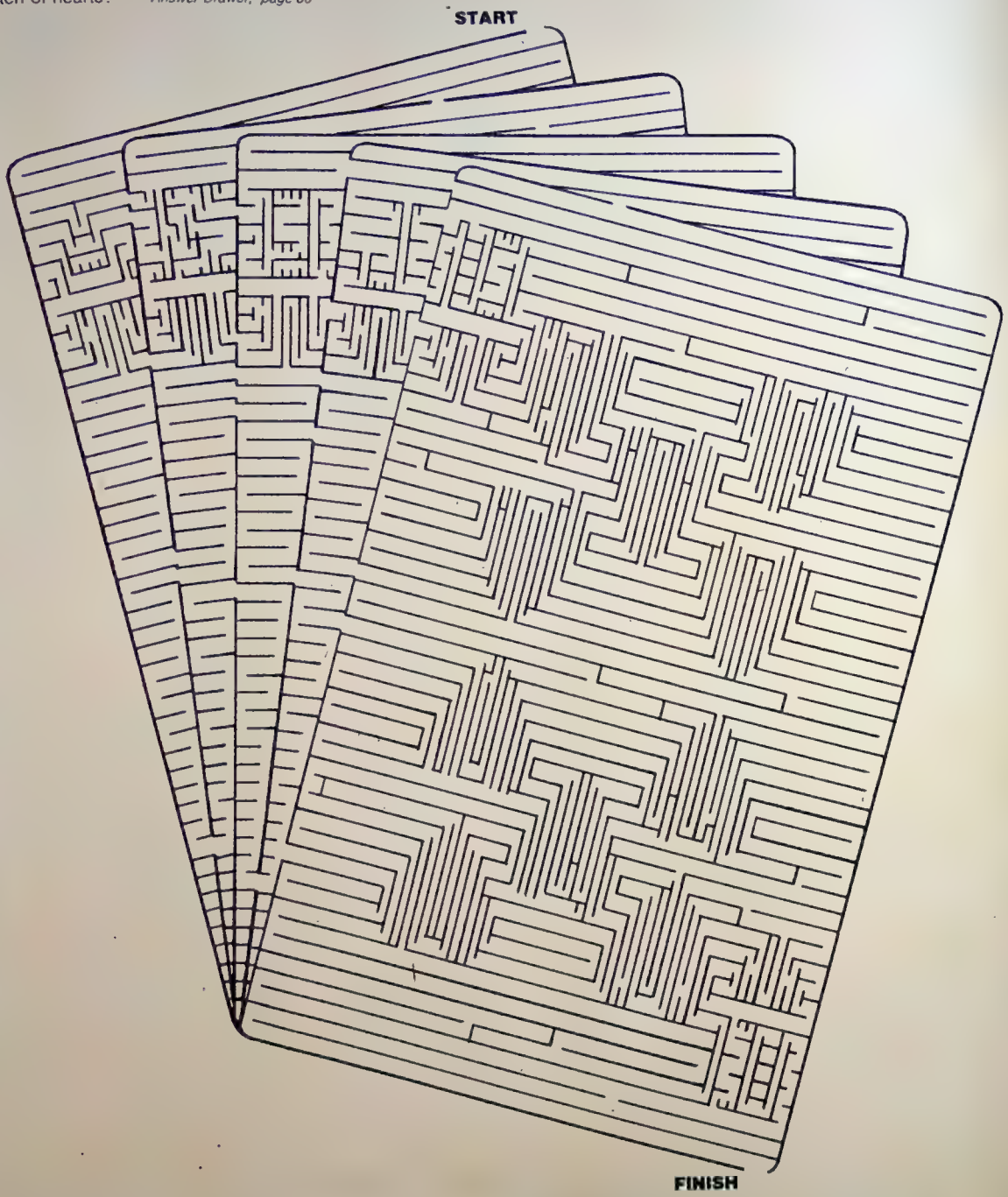
OUTWARD

100-94 Supper finale
93-84 Relating to a lung disease
83-77 Opposed to
76-72 Fragment
71-65 Yacht race
64-60 Composed
59-57 Chafe
56-48 Churchill Downs, e.g.
47-40 Guilty ones
39-31 The earth's atmosphere and beyond
30-26 Apple drink
25-17 Landscape shrub
16-13 Chooses
12-5 Working; in effect
4-1 Lion's or horse's tresses



Royal Flush ★★

by Mark Isaak

Can you find your way through this ace, king, queen, jack, and ten of hearts? *Answer Drawer, page 60*

Musical Medley ★

by William Lutwiniak

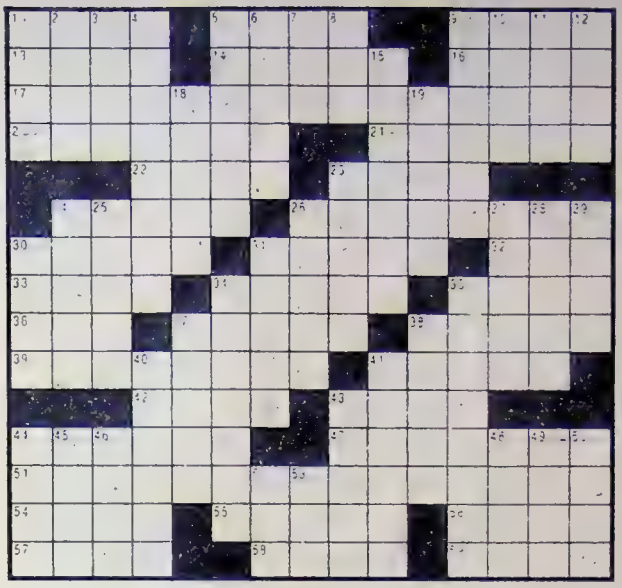
Answer Drawer, page 62

ACROSS

1 Mary had a little one
5 "____ sow, so shall ye reap"
9 Reddish-brown
13 ____ about (approximately): 2 wds
14 Lens material
16 Butter substitute
17 Busby Berkeley musical: 4 wds.
20 Caroling
21 Work too hard
22 Picnic pests
23 Active one
24 Monastery men
26 Rembrandt and Van Gogh, e.g.
30 Little Orphan Annie's dog
31 Cautions
32 Regret
33 Ins' opposites
34 Mustangs' mamas
35 Burrowing animal
36 Actress Gardner
37 By the seat of one's ____
38 Gave up, as land
39 Copies
41 Kind of beer
42 Narrow shoe size
43 Poet Teasdale
44 Kite-flier's cord
47 25¢, in slang: 2 wds.
51 Oscar-winning musical of 1965: 4 wds.
54 One of the Great Lakes
55 The vowels
56 Singer Perry
57 Lagoon
58 Wishing ____
59 Understood

DOWN

1 Defeat
2 Opposed: Prefix
3 "September ____"
4 Bandits
5 Spies
6 Bullets, to a gangster
7 Dog's bark
8 N.Y.'s time
9 ____ E. Lee
10 Ending with mod or glob
11 Transmit
12 Commotion
15 Easy winners
18 Knotted
19 Not odds
23 Has the nerve
24 Light purple
25 Available. 2 wds.
26 Segments
27 Wear away, as rock
28 12-inch measure
29 Planter's need
30 Fly high
31 "I ____ girl, just like . . .": 2 wds.
34 Capital of Nicaragua
35 $1,000,000: Sl
37 Liberace's instrument
38 Ricochet
40 Brought up
41 Legal
43 Barfly's seat
44 Prefix for Cinderella's sisters
45 ". . . comin' ____ the rye . . ."



46 Horse's leather strap
48 "The frost ____ the pumpkin": 2 wds.
49 Use a stopwatch
50 Garbage boat
52 Unused
53 Go to the happy hunting ground

Married Women ★

by Wayne Williams

When *Star Wars* first became popular, a joke circulated that went something like this: If Ella Fitzgerald married Darth Vader, her name would become Ella Vader. That same principle is used in the eight puzzles below. You are first given a clue to the identity of a famous woman, followed by a clue to her proposed mate, and then a clue to the humorous married name that she would have as a result. As with "Ella Vader" the pronunciation may be only approximate. Answer Drawer, page 62

1. If an actress named Miles married a noted consumer advocate, she would become a singer of love songs.

2. If an actress named Lupino married an Hawaiian singer, she would become a source of potatoes.

3. If the Kennedy mother married the title character in a Melville novel, she would become a sign of spring.

4. If a female outlaw named Starr married a star of the movie *The Paper Chase*, she would become a variety of pants.

5. If the star of *"10"* married a long-time singer/actor/vaudeville player, she would become a handful of flowers.

6. If the star of TV's *Maude* married the star of the movie *Superman*, she would become "deprive by death."

7. If TV's "Bionic Woman" married the male lead in *Charlie's Angels*, she would become an ingredient of varnish.

8. If Sigmund's daughter married the composer of the Hungarian Rhapsodies, she would become a practitioner of the profession originated by her father.

Dszquphsbnt! ★☆

by Norma Gleason

Below are seven messages, consisting of pithy sayings, fascinating facts, and a cartoon gag, which have been translated into simple code alphabets. Letter substitutions remain constant throughout any one cipher, but change from one cipher to the next, and the level of difficulty increases as you progress. An asterisk (*) indicates a proper noun.

Clues are given at the bottom of the page to provide assistance if you need it. *Answer Drawer, page 62*

1. CRYPTOON

BDH WZA EBWNHTEN ETCCG IBH MWRZWDMNO, ECZTH NSMWUMWR, TWL STHL ABHU. NSTN'G ASO M ETCCZL OBD MW. M ATWN OBD NB HZGMRW.

2. VIVE LA DIFFÉRENCE!

TI TWRPFTDP GTNIPNIA WV *KTPNRRH ZSIA SGRNMH MQBI NI TI TFP KSRHSK YQF T KQIPZ WHYQFH PZH HFPQF BTR IQPNDHM.

3. BUT STILL UNIQUE

DGFUPJPK QLA BFQ RP IAKP LX, RP IAKP LX UGYI—UGFU QLA FKP HKPFHXAOOQ OYVP LUGPK EPLEOP. *MFBPI *KAIIPOO *OLDPOO

4. BIRD LORE

OBC ULWECR XEKCI ASCW RFOCW YLUB AX OBC OKYC. KO'I ZAAV BC UFJ ZA JAJ-IOAT XAW ASCW ORA OBALIFJV YKECI IKJUC BC UFJ'O IRKY.

5. NOT SO SIMPLE

RMXIX'B HGKHSB HU XHBS BJGNRLJU RJ XEXIS MNAHU TIJYGXA—UXHR, TGHNBLYGX, HUF KIJUP, BHLF *M. *G. *AXUQZXU, *BHPX JO *YHGRLAJIX.

6. LIKE SNAKE OIL

CUHKTPE GFKU IBQ QGXY BQ B EBHUFH AUYNKNFU, *URHWBKH GJ *HGABHG, BF UXNRNW JGW WUXNUMNFS ABFL TPABF NXXQ.

7. CASH HELPS

Word divisions in this cipher have been concealed by arbitrarily putting the letters into groups of five—although the letters are still in proper order. Punctuation has been omitted to increase the challenge.

VFYQM ZNFDS NFXQF YEONM HQOOE FZSMX QLLVO NRRZS FVFHQ OXNTL MESRN QDHXI EDVFV OQTEF YEDNL TQHNR

Clues: One cipher word in each cryptogram this issue is an anagram (rearrangement of letters) of the plaintext word it represents. For example, suppose you're stuck on cryptogram # 1. Search for a cipher word that can be unscrambled to form a real word. In this case the fourth word from the end—ATWN—can be anagrammed to form WANT. Distribute the four letters throughout the cipher and you'll have clues to many other words. Other anagrams:

Cipher 2: Third word
Cipher 3: Fourth word from the end
Cipher 4: Second word
Cipher 5: Eighth word
Cipher 6: First word
Cipher 7: Fourth group of letters (complete therein)

Dollar Signs in Your Eyes ★★

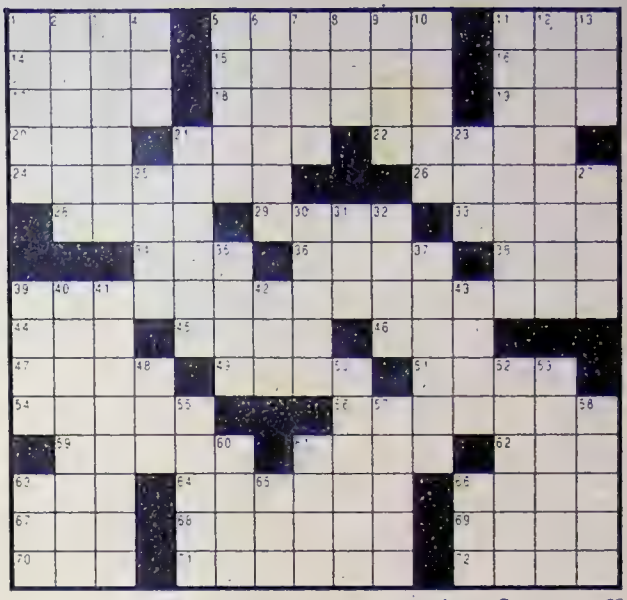
by Stephanie Spadaccini

ACROSS

1 Baby buggy
5 Quiz show contestant's "take": 2 wds.
11 Indian shoe, for short
14 Singer Horne
15 Soak up again
16 A pig ___ poke: 2 wds.
17 Aide: Abbr.
18 One-celled animal
19 Catch in the act
20 Cry of pain
21 British prep school
22 Celeb's ten-percenter
24 Loan shark
26 Prophets
28 Three: Ger.
29 On the briny
33 Ku Klux ___
34 World Series month: Abbr.
36 Allowance, of sorts: 2 wds.
38 New York campus: Abbr.
39 Poor man's protest?: 3 wds.
44 Nabokov heroine
45 Burn slightly
46 Motorists' org.
47 Rumpus rooms
49 Red light
51 *Mona* ___
54 Third planet from the sun
56 Walking along: Sl.
59 "Peanuts" character
61 Muhammad and MacGraw
62 Self
63 "___ the season to be jolly"
64 Exorcist or witch doctor
66 Singer Guthrie
67 Superlative suffix
68 Mann or Greeley
69 Slave Scott
70 Former First Daughter
71 "Cash, check, or ___": 2 wds.
72 Insurance, in a way: 2 wds.

DOWN

1 "Monopoly" scrip: 2 wds.
2 Auctioned off again
3 Reply
4 Welcome ___
5 Babble
6 Sucking fish
7 "Time ___ My Side" (Stones song): 2 wds.
8 Actress Caldwell
9 Herb: Sp.
10 Wealthy one
11 Liza with a Z
12 Hitchcock's *Strangers* ___: 3 wds.
13 Mr. Calloway
21 Decrees
23 What a lady says to a mouse?
25 Gas used in signs
27 Like a bug in a rug
30 I hope: Lat.
31 Goddess of healing
32 Author Seton
35 Golf gadgets
37 Cynical saying 2 wds.
39 "A fool and his ___ soon parted": 2 wds.
40 Noble pursuit
41 Vestry
42 Large vessel for liquids
43 Ave!
48 Depot: Abbr.
50 Buckingham or Versailles, e.g.
52 *The Treasure of the ___ Madre*
53 Fished
55 Payoff to keep quiet: 2 wds.
57 Forty-___ (San Francisco football player)
58 Throwing ___ after bad: 2 wds.
60 Word to a fly
61 *Diary of ___ Housewife*: 2 wds.
63 Pekoe, e.g.
65 Timetable abbr.
66 Halsey's rank: Abbr.



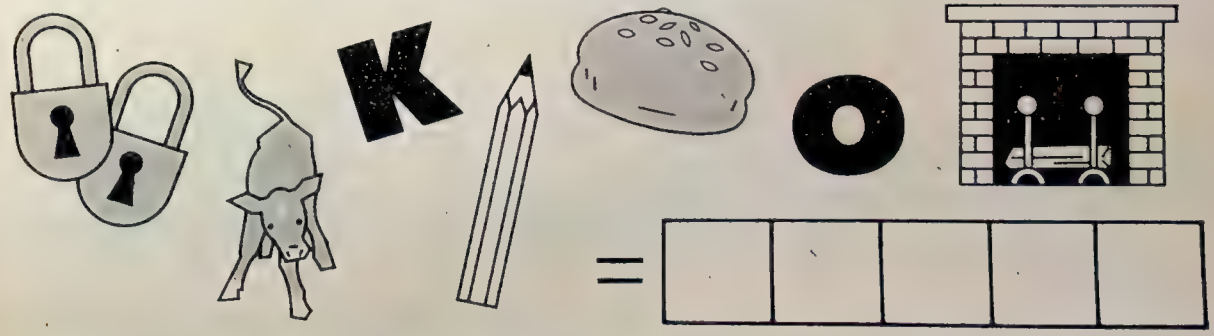
Answer Drawer, page 62

Fractured Rebus ★★

by Marvin Miller

Just about everyone has tried his hand at solving a classical rebus puzzle. Juggling the words OVERSHOE + D − DOVE, for example, leaves the letters of HORSE. Easy. Here's a new twist: we've jumbled the pictures and eliminated the plus and minus signs. Suddenly not so easy! What five-letter word is left when the pictures are placed in proper order and the parts correctly added and subtracted?

Answer Drawer, page 62



Beyond Wacky Wordies ★☆

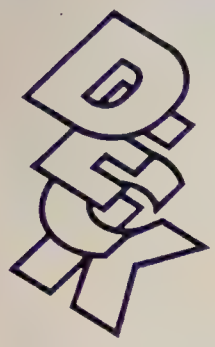
by Charles Adkins

Some of you may remember that the January/February "Wackiest Wordies" were billed as our "fourth and final" page of these puzzles. But many readers evidently thought we were fooling, and have bombarded us with new rebuses—thereby clogging our files, distracting the editors, and disrupting the really important work we do here. As a gesture to these die-hards, here are Wacky Wordies one more time. But this really is the last of them. . .

Directions: The object is to discern a familiar word, phrase, saying, or name from each pictorial letter arrangement. For example, Box 1 depicts the phrase "stacked deck." Box 2 shows "life of ease." Please, we beg, don't send us any more!

Answer Drawer, page 62

1



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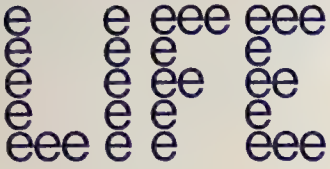

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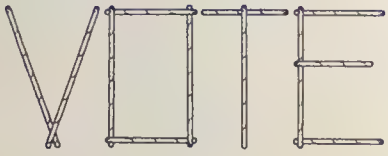

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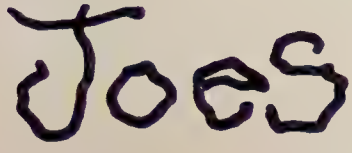

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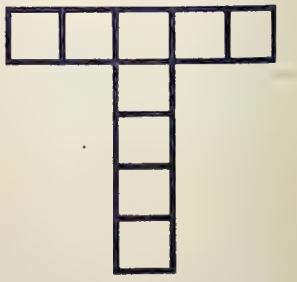

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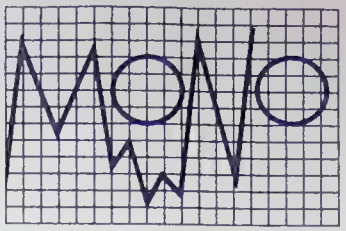

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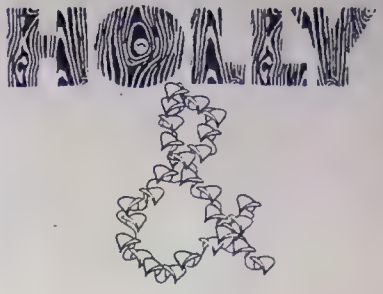

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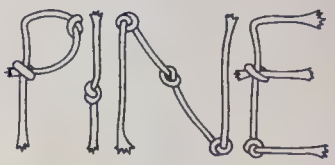

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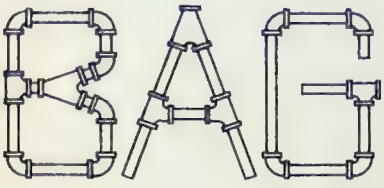

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stereo

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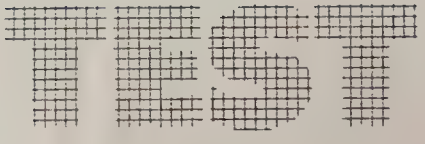

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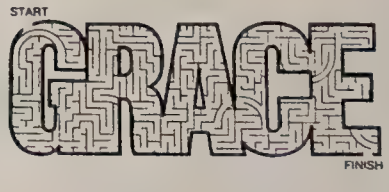

A Messy Desk (Part 1) ★

Photo Search Puzzle by Edith Rudy

Justice Frankfurter once said, "A clean desk represents an empty mind." These are words we heartily endorse as we watch growing piles of unedited manuscripts and unanswered correspondence smother our desk. Help us get organized. The names of 25 objects in the photo of our desktop are concealed in the grid of letters at the bottom of the page. Can you find and circle them? A name may read forward, backward, up, down, or diagonally, but only in a straight line. The word TELEPHONE is circled as an example.

Once you are finished, turn to page 41 for Part 2 of "A Messy Desk"—an observation and memory test. Study the photo carefully before you turn, because afterward you cannot turn back.

Complete word list page 60 *Answer Drawer, page 63*

T H E S K E K M S R Y C N E K V S W R K L H I E S S H U M
A C I R H M R A D N E L A C Y L M A S H T R A Y D O Y L B
S N A E N P L E T T E R O P E N E R O I M E S L N R C E K
R U P L I O N G S T E L E P H O N E D Y S T R I A N A S K
O P Y P C A L E N O C G H N C R E E T H Y H A N B M S T O
S E R A T U R S T E K C I T R E T A E H T G O A R U P A L
S L C T E F L E S N G P U B G C Y P R W L I C N E P I L O
I O M S T S S A L G G N I Y F I N G A M T L E R B A R S L
C H B E S U H V T U R L D R F G C M I C A G L O B R I N G
S M I B P R S E M O R U E B U C S K I B U R E S U L N O R
A P N E W S P A P E R N H A R O P D N S E T T E R A G I C

Pencilwise Continues on Page 37.

OUT, Damned Spot!

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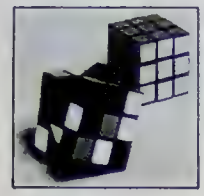

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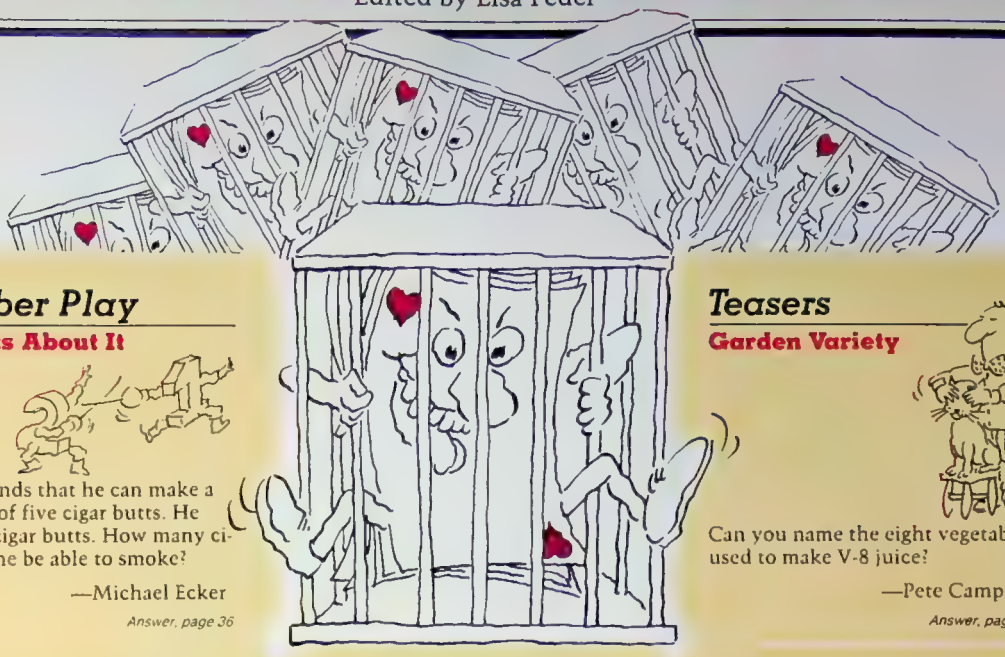
★☆ WILD CARDS ★☆

Edited by Lisa Feder



Number Play

No Butts About It

A hobo finds that he can make a cigar out of five cigar butts. He finds 25 cigar butts. How many cigars will he be able to smoke?

—Michael Ecker

Answer, page 36

Teasers

Garden Variety

Can you name the eight vegetables used to make V-8 juice?

—Pete Campbell

Answer, page 36

For the Record

Ad Astra

Why is Henry Fonda's name a household word? Because of his many performances on stage and screen? Or because he's the father of Jane? Ask any baby of the TV generation and you'll get another answer: he's the one in that camera commercial. Can you recognize these other celebs who have appeared in TV ads?

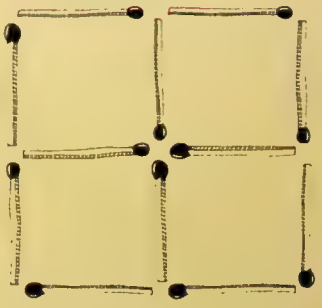
1. He "prescribes" decaffeinated coffee.
2. She sings about a charismatic chicken.
3. Former TV rancher who pushes dog food.
4. This husband and wife team appeared in an aperitif ad.
5. Former *M*A*S*H** actor who inserts a cookie in a slot machine.
6. Trash bag's hefty comedian.
7. Tall, good-looking beer drinker who wears spurs.
8. Suave Hispanic who encourages us to buy automobiles.

—from *TV Ad Trivia Quiz Book* (A S Barnes & Co.). © 1980 by John DiPrete

Answer, page 36

Look

Match Game



The twelve matchsticks here form five squares—one large one and four small ones. Can you rearrange them to form six squares? There is no limit to the number of sticks you may move, but none of the sticks can be broken, removed, or overlapped, and the entire length of each stick must be part of at least one square.

(Note: There are 2 possible answers.)

—D.P.

Answer, page 36

Hall of Fame

Sh—Boom!

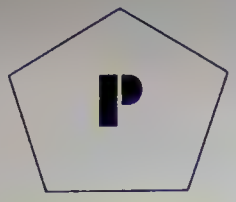
C'mon, all you bobbysoxers and be-bop big daddies, name the golden oldies in which these memorable scats appear:

1. Fe fe, Fi fi, Fo fo, Fum.
2. Oo ee oo-ah-ah, ting tang walla-walla bing bang.
3. A-BOP bop a loobop, ba lop bam boom.
4. Oohwah, Oohwah, Oo-oo wa-ah, Oohwah.
5. Lincoln, Lincoln, bo Bincoln, Banana fana fo Fincoln.
6. Doo-Lang, Doo-Lang, Doo-Lang.
7. Imminy maa-maa-maa, Imminy maa-maa-maa.
8. Yip-yip-yip-yip-yip-yip-yip-yip, Boom-oom-oom-oom-oom-oom.
9. Dom doobie doo dom dom, comma comma.
10. Doo-run-di, Rundi rundi, baba Doo-run.

—Martin F. Kohn

Answer, page 36

Illustrations by Wallop Manyum



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Trivia

The Courtly Art

Sure, your lob is terrific, your serve's faster than a speeding bullet, but can you volley these questions in a round of tennis trivia?

1. In a famous Alfred Hitchcock film, a champion tennis player gets involved with a killer named Bruno. What is the film? Who played the tennis star?
2. Which well-known actor made his Broadway debut framing the immortal question, "Tennis, anyone"?
3. What noted tennis star is related to San Francisco Giants pitcher Randy Moffitt?
4. What noted political figure of the '70s drew headlines when he hit his tennis partner in the head with a wild ball?
5. *Exeter: Tennis balls, my liege.* From what Shakespearean play have we plucked this?

—Louis Phillips

Answer, page 36

Word Play

A Rose is a Rose is a Rose... Isn't It?

These two bards contend that it all depends how you look at it. Study their verses and you'll see what they mean.

"The Pessimist"
by Margot Quinjuys

That deep red rose—I see its thorn.
I just ignore the scent that's borne.
To me it's nothing. I deplore
Those scratches that I got before.
I just complain about the pain.
A lot *I* think of beauty's gain.

"The Optimist"
by Mary Younquist

That deep red rose I see,
It's thorn I just ignore.
The scent that's borne to me—
It's nothing I deplore.
Those scratches that I got—
Before I just complain
About the pain a lot,
I think of beauty's gain.

—from *Word Ways*. August, 1972

Twists

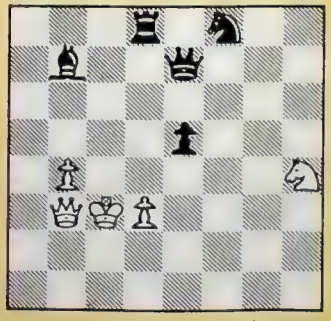
Kinglet

V.R. Parton was an Englishman who devoted much of his life to the invention of novel ways to play chess and checkers. Kinglet is one of his ideas, and it is both simple and elegant.

Players set up a chess set in the usual way. All pieces and pawns move exactly as they do in chess. The concept of "check" is abolished, however, and the kings may be captured like any other pieces without ending the game. The object of the game is to capture all eight opposing pawns, or "kinglets" as Parton called them. If a player is forced to promote his last pawn, he loses.

The first time one plays Kinglet, there is a temptation to sacrifice knights and bishops for pawns as rapidly as possible. The trouble with this strategy is that the opponent can try to exchange off the other pieces, achieving an end position in which he can easily pick off several of your pawns before you can get even two of his. Probably, the best plan is to develop pieces as in standard chess (except for the king, which may be brought safely into the center), and look for opportunities to win pawns free or to get at least two pawns in return for a minor piece.

The following problem shows a possible ending in a game of Kinglet.



White is to move and win (that is, White must capture the Black pawn before losing both of his own pawns).

—R.W.S.

Answer, page 36

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Teasers

Would You Please Repeat the Question?

Can you recall the question associated with each of the following?

1. Bugs Bunny
2. Alfred E. Neuman
3. Elizabeth Browning
4. John Charles Daly
5. Kristin Shephard
6. Jimmy Carter
7. Ed Koch
8. Tevye

—H.H

Answer, page 36

No Kidding

A Ring of Numbers

What set of well-known three-digit numbers does this rhyming riddle describe?

The first is never zero or one,
The second always is,
And the third—not zero—
but maybe one,
Can you pick up on this?

—Wayne Williams

Answer, page 36

Word Play

What's the Story?

This popular tale has been passed from hand to mouth for centuries, and though we've heard many versions, the one that follows, with its tongue-in-cheek twist, is our favorite. We hope you like it too. (Marlin clued it.)

Goal Deluxe Sander Tree Bears

Won sap pun a tine dare washer ladle gull culled Goal Deluxe zoo leave din dissenter offer lodge forced widow mutter hander fodder.

Ones window ladle gull and/or pear rents swear aweigh dare hop penned topaz buy tree beers—ham other beer, ha dotty beer, inner ladle bay be beer.

Sea ingot dough row pin, bay be beer win tinfoil ode buys modern fodder. Dot repairs wondered true Goal Deluxe souse: day eight parch; day satin cheers; sand atlas day fellow slip into tree bids.

Wend Goal Deluxe sander mutter ran fodder god hum, daze awe sum thin whirrs rung. "Sum bodice bin neat tender parch," sad Goal Deluxe, "an day aided awl! . . . Handsome bodice bins it ten end doughs cheers!"

Gong hindu turbid rum, Goal Deluxe led otters cream: "Sum bodice bin slipping inner bids anthers till dare!"

Herring hearse cream, dot repairs leep tout ha bet innate Goal Deluxe sander pear rents sup. MARL: Led slipping beers lye.

—Charles Joyner

Answer, page 36

Tough Nuts

A Bridge Puzzle

Here's an amusing double-dummy problem, suitable for bridge players who think they are doubly clever. In the hand shown, North made a game-forcing opening bid, and South ended up as declarer in three no-trump.

Note that every other game contract will fail. Five diamonds goes down on a spade lead, and a major suit game will be defeated by at least two tricks.

At first glance, it does not seem that South will have any trouble taking nine tricks. There is a clever defense, however, which will place the contract in jeopardy and require declarer to play with extraordinary skill to make the hand.

The opening lead is the King of clubs. How should declarer proceed?

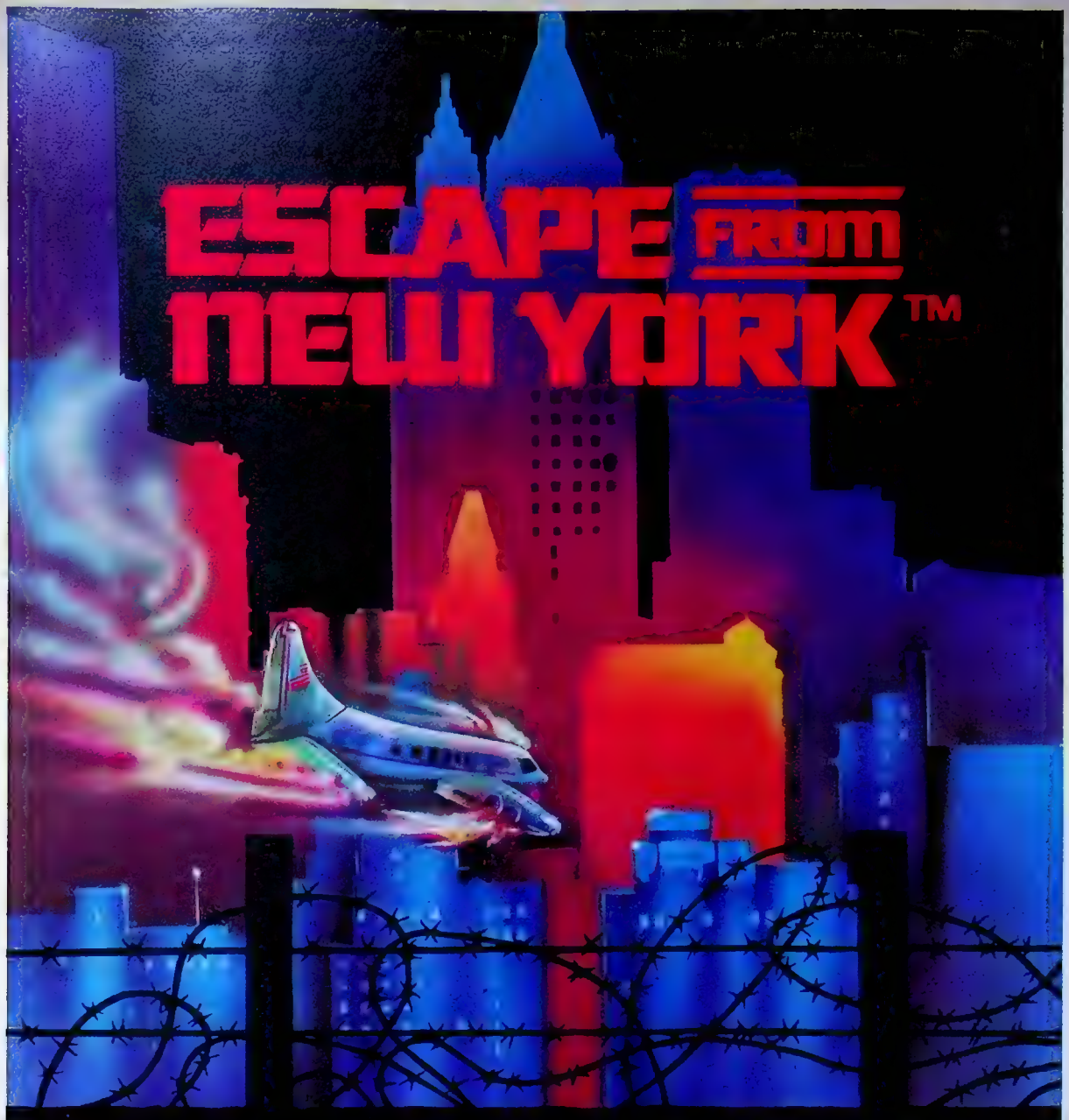
—Mel Stover

NORTH
♠A K Q
♥A K Q
♦Q 10 9 8 7 6 5
♣—

WEST	EAST
♠8 6 5 4 3	♠2
♥9 7 6 5 4	♥3 2
♦A K	♦J 2
♣K	♣A Q 10 9 8 7 6 5

SOUTH
♠J 10 9 7
♥J 10 8
♦4 3
♣J 4 3 2

Answer, page 36



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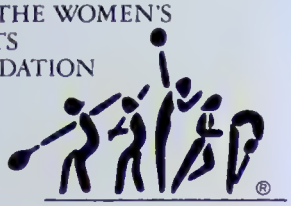

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WILD CARD ANSWERS

No Butts About It

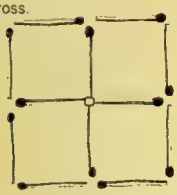
Six cigars. Once our bum makes his five cigars out of 25 butts, naturally, he smokes them, which leaves him five butts—and a sixth cigar

Ad Astra

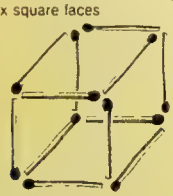
1. Robert Young
2. Florence Henderson
3. Lorne Greene
4. Angie Dickinson and Burt Bacharach
5. Gary Burghoff
6. Jonathan Winters
7. James Coburn
8. Ricardo Montalban

A Match Game

1. No conditions were imposed on the size of the squares, so if the matches are arranged as shown, a tiny square can be formed in the center of the cross.



2 The matches can also be arranged to form a cube with six square faces



Garden Variety

Tomato, carrot, celery, beet, parsley, lettuce, watercress, and spinach

Sh-Boom!

1. "Charlie Brown"
2. "The Witch Doctor"
3. "Tutti Frutti" (All rootie!)
4. "Why Do Fools Fall in Love?"
5. "The Name Game"
6. "He's So Fine"
7. "Imagination"
8. "Get a Job"
9. "Breaking Up is Hard to Do"
10. "I Met Him on a Sunday"

Kinglet

1. Qb3-d5. Bb7xd5 (if instead 1. . . . Rd8xd5 2.Nh4-f3 wins) **2.** Kc3-d4, e5xd4 **3.** Nh4-f5 followed by **4.** Nf5xd4. The "interference" theme of this problem is one often seen in orthodox chess problems In the diagrammed position, Black's bishop keeps White's knight from f3, while Black's rook keeps White's king from d4 When White forces Black to make a capture on d5, where the bishop and rook lines intersect, one of these Black pieces must necessarily obstruct the line of attack of the other

The Courtly Art

1. *Strangers on a Train;* Farley Granger
2. Humphrey Bogart
3. Billie Jean King
4. Spiro Agnew
5. *Henry V*

Would You Please Repeat the Question?

1. What's up, Doc?
2. What, me worry?
3. "How do I love thee? . . "
4. *What's My Line?*
5. Who shot J R ?
6. *Why Not the Best?*
7. How'm I doin'?
8. "Do You Love Me?"

What's the Story?

Goldilocks and the Three Bears

Once upon a time there was a little girl called Goldilocks who lived in the center of a large forest with her mother and her father

Once when the little girl and her parents were away there happened to pass by three bears—a mother bear, a daddy bear, and a little baby bear.

Seeing the door open, baby bear went in, followed by his mother and father. The three bears wandered through Goldilocks' house, they ate porridge; they sat in chairs; and at last they fell asleep in the three beds

When Goldilocks and her mother and father got home, they saw something was wrong. "Somebody's been eating the porridge," said Goldilocks, "and they ate it all! . . And somebody's been sitting in those chairs!"

Going into her bedroom, Goldilocks let out a scream: "Somebody's been sleeping in our beds and they're still there!"

Hearing her scream, the three bears leaped out of bed and ate Goldilocks and her parents up.

MORAL: Let sleeping bears lie.

A Ring of Numbers

The rhyme describes U.S. telephone area codes

A Bridge Puzzle

The only way the defense can give declarer a problem is for East to overtake his partner's King of clubs with the Ace and continue with the Queen and Ten, on which West throws the Ace and King of diamonds. East now has the diamond Jack as an entry to his good clubs.

Declarer must begin to counter this expert defense at trick one by discarding a high spade from dummy. He then discards dummy's remaining spades on tricks two and three. When he gets the lead with the Jack of clubs, he plays his four spades from the top down, discarding three hearts from dummy. When West wins the eight of spades, he can cash another spade but must then lead a heart into South's tenace. Declarer wins and cashes his remaining hearts. On the last heart, East is squeezed: he must either part with a low diamond, in which case his Jack will drop, or he must throw his last club, in which case the low club remaining in the South hand will become the ninth trick.

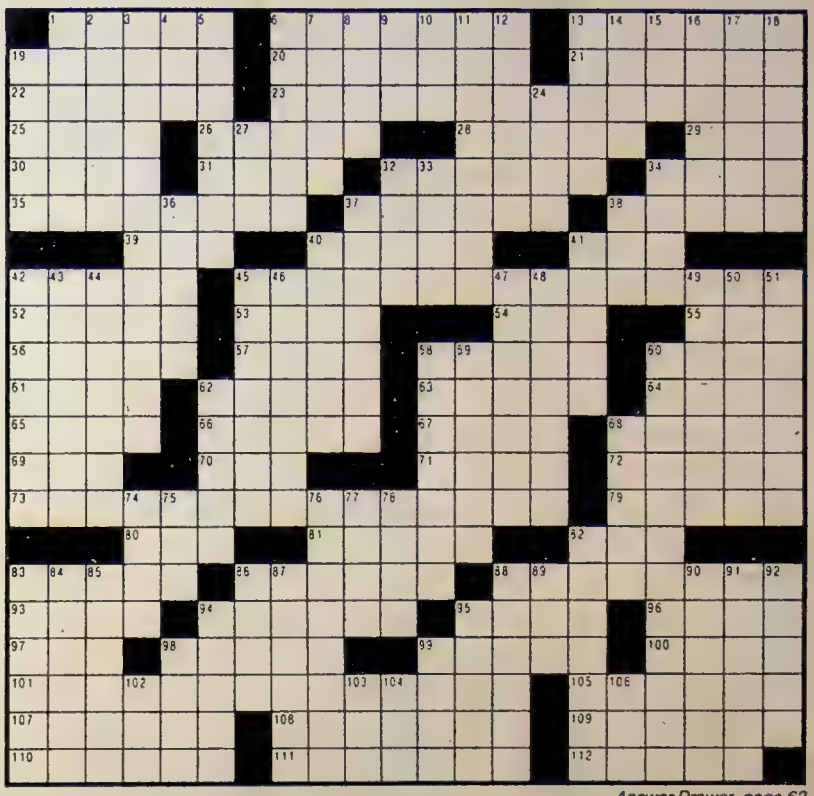
It would not have helped West to play hearts instead of cashing his last spade. South would have run his hearts as before, then given up a club to East at trick eleven. East, who would have had to come down to two diamonds and a club when the final heart was led, would now be endplayed, and dummy would take the last two tricks.

Continued from Page 28

Inflation ★★★

by Mike Shenk

PENCILWISE



Answer Drawer, page 62

ACROSS

1 *Animal Farm* farm
6 Like a white elephant
13 Impassive
19 Like the Dead Sea
20 Model of excellence
21 Once and twice
22 Does legislative work
23 Come to an instant halt
25 Jeopardy
26 S-shaped moldings
28 Sty cry
29 Lass's headgear
30 Forge
31 Quick proposition
32 Amen
34 Sweetheart of the '72 Olympics
35 Surgical implements
37 Good citizen
38 Prepare to propose
39 Succor
40 More tender
41 *Norma* ____
42 Fence stairs
45 Bakery product
52 Ancient attire
53 Take ____ (imbibe)
54 Runner who beat Walker
55 Whoop
56 Cat-____-tails
57 Statute
58 Beachcomber's find
60 Like a dime
61 Small contribution
62 Holography need
63 Innocents abroad?
64 "____ real nowhere man . . ."
65 Arabian district
66 A pound of flesh, e.g.
67 Blue flag
68 Sandwich shops
69 Washington agcy.
70 Ending for proto or bryo
71 Ambassador's need
72 Tooth: Prefix
73 Staubach and Bradshaw
79 Washed out
80 Singer Janis
81 Actor Greene
82 Ending with sit or non
83 Throes
86 Gave a buzz
88 Portrait photos
93 He gave us a lift
94 Miscellaneous
95 Wrapping for leftovers
96 Viva voce, at Oxford
97 Call ____ day
98 Magna ____
99 Newspaper where the first crossword puzzle appeared in 1913
100 See, in a way
101 Stingy ones
105 Item for a Boy Scout campfire
107 Electrode tube
108 Asymmetric, as a triangle
109 Quantity
110 Detects
111 Sawbuck
112 ____ tight ship (is strict)

DOWN

1 Lunatic
2 Seward's Folly
3 Hack writer
4 Neighbor of Mich.
5 Repaired shoes
6 Surprising defeats
7 Cloys
8 Man with beaux and arrows
9 Place for bouncing babies
10 Occasional beginning for 1-Down
11 Bobolink or bulbul
12 Catches.
13 Stand-in's performance
14 Yonder thing
15 Hockey Hall of Fame name
16 Kind of league or people
17 Pleistocene epoch
18 Of the skin
19 Feudal farmers
24 Give notice
27 Harden
32 Foal's father
33 Lennon's "Starting ____"
34 Lulu
36 Gangster's "gun"
37 Cupreous
38 Hebrew measure
40 Jimmy Carter, once
41 Projection room paraphernalia
42 Tolerate
43 Libya's neighbor
44 M or S, for this puzzler
45 Umbrella's fair-weather friend?
46 What Tom Jones said it's not
47 Chipping tool
48 Harasses
49 Flying formation
50 Originating
51 Shang or Sung
58 ____ polish
59 *Ars Poetica* author
60 Place for another coin, in a '50s song
62 Manila's island
68 Birds of the *Inepti* group
74 Smyrna harvest
75 Court VIPs
76 NATO, for one
77 Julia, to Vanessa
78 Hybridized
82 Fifties phenomenon
83 Scoreboard reading
84 Dress
85 One of the B vitamins
86 Complain
87 Virtuoso
88 Old-time garment
89 Abner's adjective
90 Neptune's neighbor
91 Bronze film
92 Winter weather
94 Dells
95 ____ apparent reason
98 Relinquish
99 Require Kleenex
102 Boxing stats
103 Fire, in a way
104 Mencken and Hunt
106 Cassowary's cousin

Trailblazer ★★

Deduction Game for Two Players

by Steve Wilson

Materials Paper and pencil.

Playing time About ten minutes.

Object Be the first to map your opponent's "trail" of numbers in a 6 x 6 grid.

To start Each player draws two 6 x 6 square grids and labels them A-F across the top and 1-6 down the side. In one grid a player will mark his own path; the other is for recording information gathered about the opponent's path.

Blazing a trail Keeping his first grid hidden from the opponent, each player chooses a number from 1 to 25 and writes it in any square in the grid. From that square he next moves left, right, up, or down (but not diagonally) to an adjacent square, in which he writes the next higher whole number. He continues in this fashion, always moving horizontally or vertically to an empty adjacent square, until he can go no further. He is free to make his trail wind around as he pleases, and may leave squares unnumbered (such as those marked "X" in the example of a trail shown above right), so long as no unnumbered square borders another unnumbered square or the beginning or end of the trail.

Tracking Once the trails are blazed, tracking begins. Alternating turns, each player names the coordinates of a square in his opponent's grid, and the opponent reveals the number in that square. For example, if you blazed the trail shown above right and your opponent asked coordinates "B3", your answer would be "16"; if "D5", your response would be "X".

Ending the game Tracking continues until one player believes he has an accurate map of his opponent's trail and, at the beginning of his turn, produces it. The map is then checked for accuracy. If it is correct, the player who produced it wins. If incorrect, the other player wins. In a best of three match, the players should alternate going first.

Variations (1) Trailblazer can, of course, be played with any size grid. For example, an 8 x 8 square grid affords a good, longer game. (2) Trailblazer can also be adapted to more than two players, with A tracking B, B tracking C, etc.

	A	B	C	D	E	F
1	13	12	7	8	23	24
2	14	11	10	9	22	25
3	15	16	17	18	21	26
4	X	35	34	19	20	27
5	37	36	33	X	29	28
6	38	39	32	31	30	X

Sample map: Trail begins in square C1 (low number—7) and proceeds to square B6 (high number—39).

	A	B	C	D	E	F
1						
2		38		40	47	
3		X				31
4						
5		19			28	
6			23			

Tracking your opponent's map: After eight turns you have all the data you need to identify his trail. Can you do it? *Answer Drawer, page 63*

Cryptic Crossword ★★★

by Emily Cox and Henry Rathvon

Over the past eight issues, this space has been used to describe the basic sort of clues used in cryptic crosswords. (Watch for information on ordering an expanded version of those columns.) Starting with this issue, puzzlesmiths Emily Cox and Henry Rathvon will describe various oddities, problems, and fine points relating to cryptic puzzles. Questions from readers are encouraged.—W.S.

Every cryptic crossword features a number of words that lend themselves to clear-cut cluing methods: e.g., anagrams (PASTEL/PALEST), charades (SHORTS-TOP), etc. But other words break up more awkwardly and may yield leftover odds and ends. These bits may be clued by common abbreviations (ST for "street," N for "north," etc.), or by more cryptic methods. For example, the letter R might be called "Russia's leader" (first letter of the word) or, more deceptively, "Russia's premier." It could also be "end of year," "back of car," or "tiger's tail." A still more subtly veiled indication might be "Central America." The more idiomatic the phrase, the more misleading. L could be called "head of lettuce"; Y could be "the Fourth of July"; H could be "Beethoven's Fifth"; IC could be "sick at heart"; LI could be "half-life"; and T could be "alphabet's last letter."

The clue for 1-Across in our Warm-Up Puzzle shows how this device works. The answer CHAMP ("to chew vigorously") is derived when CHAP ("fellow") surrounds ("eats," if you will) the letter M ("piece of meat"). By tradition "bit of" and "piece of" refer only to the *first* letter of a word. By the way, note that this clue is a simple container, one using a lone letter instead of a whole word for the inner piece.

A hint for beginners: indications of single letters will be found in 5-Across in the Warm-Up Puzzle, and in three more clues below (24-Across, 3-Down, and 17-Down).

ACROSS

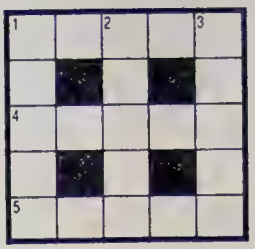
1 Moving in the classic exercises (12)
8 Boston patriot has one daydream (7)
9 Judge rarebit wrongly (7)
11 See about public relations binge (5)
12 Poor Theda—deaf and dumb (9)
13 Vessel loses race badly (9)
15 Sticks with Europeans (5)
16 Impulses evident in our gestures (5)
18 Outlaw violated road speed (9)
20 Writer held by Communist? This makes a point (9)
23 Said, "I'll row" (5)
24 Hit spouse's head with handwear (7)
25 Our entering tiger's enclosure requires boldness (7)
26 Gothic doctor ill-used tanner's knife (12)

DOWN

1 Jails containing very incomplete vaults (7)
2 Girl eating green bananas in bulk (9)
3 This woman has a piece of fish in bundle (5)
4 She's alert, agitated, and mean (9)
5 Peer inside piano, bleakly (5)
6 Foreign dialect in fortress (7)
7 Intensive studies in demolition derby sites? (5,7)
10 Found again, Soviet is given press treatment (12)
14 Darien con breaking law (9)
15 E.R.A. term up unfortunately early (9)
17 Glassworker is more idle after the third of August (7)
19 Don't vote for a ban—sit out (7)
21 Still in bed, coming up with a practical joke (3-2)
22 Plays music with Stones? (5)

Warm-Up Puzzle ★★ for New Solvers

With detailed explanations in Answer Drawer, page 63



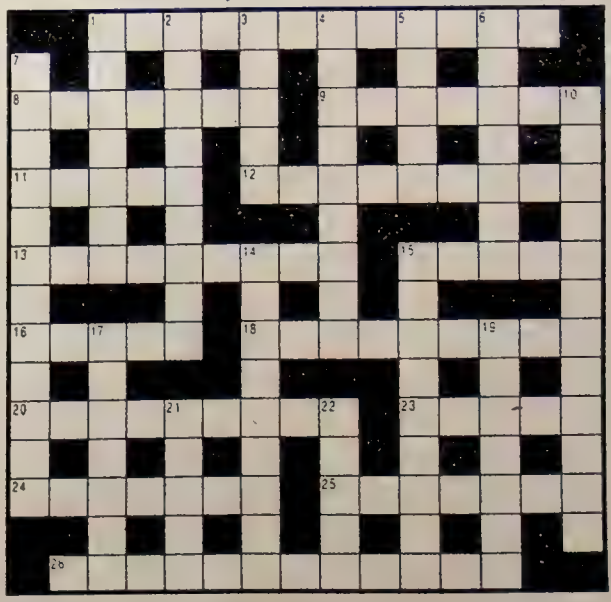
ACROSS

1 Fellow eating piece of meat has to chew vigorously (5) *container*
4 Tamper, we hear, with Olympic award (5) *homophone*
5 Ship's first voyage with band (5) *charade*

DOWN

1 Author of *The Stranger* is tree climbing (5) *reversal*
2 Unnaturally dread snake (5) *anagram*
3 Small sea creature found among roly-poly porpoises (5) *hidden word*

Answer Drawer, page 63

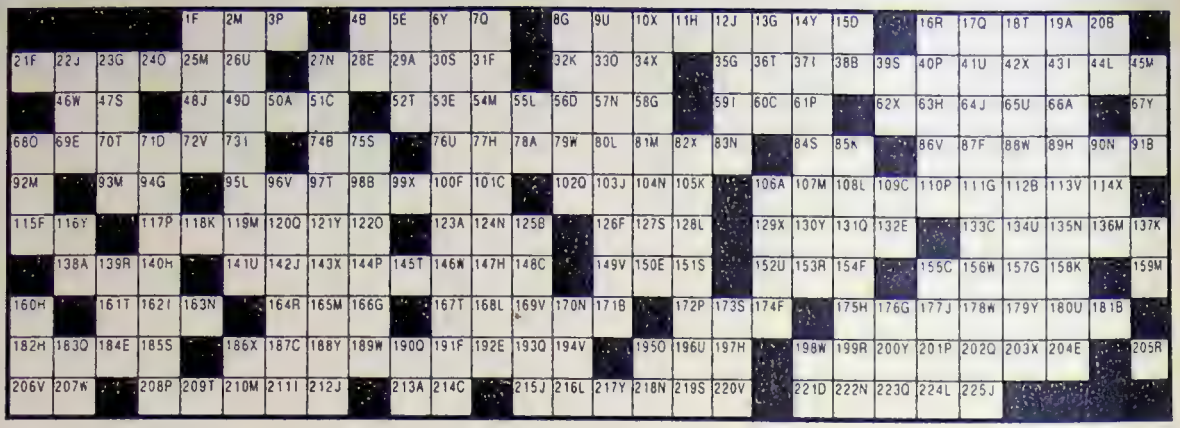


Emily Cox and Henry Rathvon compose cryptic puzzles for The Atlantic Monthly *and* The Progressive.

Double Cross ★★

by Michael Ashley

Answer the clues for words to be entered on the numbered dashes. Then transfer the letters on the dashes to the correspondingly numbered squares in the puzzle grid to spell a quotation reading from left to right. Black squares separate words in the quotation. Work back and forth between grid and word list to complete the puzzle. When you are done, the initial letters of the words in the word list will spell the name of the author and the source of the quotation. *Answer Drawer, page 62*



A. Not for commercial gain 66 213 78 106 19 29 123 50 138

B. Fancy stitching 112 98 4 171 74 38 181 91 125 20

C. Tea flavoring 51 60 101 109 133 214 187 155 148

D. Don, of the Dolphins 15 49 56 71 221

E. Act of coming forth 5 28 53 69 204 132 150 184 192

F. Bedside table 154 115 31 126 1 174 21 87 100 191

G. Many-faced in shape 35 13 23 58 8 166 111 94 157 176

H. Missed; omitted 11 182 175 147 63 160 140 89 77 197

I. Attorney 37 43 59 73 162 211

J. Develop a hybrid 103 225 48 215 12 64 142 22 177 212

K. Pact between nations 32 85 105 118 137 158

L. Set up; establish 216 44 128 55 224 95 80 188 108

M. November birth flower 81 2 107 92 45 210 54 159 185 25 93 136 119

N. Study of prehistoric peoples 27 57 104 218 163 170 135 90 124 222 83

O. Capital of Tibet 24 33 88 122 195

P. Freshwater delicacy 172 201 40 144 3 117 110 61 208

Q. Request of attendance 183 193 102 190 7 223 17 202 120 131

R. Chinese port on the Han River delta 16 139 153 164 199 205

S. Ladylike in manner 219 75 47 151 84 127 30 173 39 185

T. Ship's galley 52 18 36 70 145 167 97 161 209

U. Look about with great curiosity 152 9 134 141 180 26 196 65 41 76

V. Utterly detestable 206 86 169 149 220 98 72 113 194

W. Foremast lookout (2 wds.) 178 66 46 156 189 198 146 207 79

X. Compulsion to steal 82 129 34 186 114 143 10 99 203 42 62

Y. Replacement 6 14 67 116 179 130 200 121 217 188

A Messy Desk ★☆ (Part 2)

Observation/Memory Test

Study the picture on page 28 before taking this test. Did you really observe what you saw on the desk in the word search puzzle? Answer these 18 questions to find out.

Answer Drawer, page 64

1. Approximately what time was the picture taken?

2. What month of the year?

3. Was the clock an electric or wind-up?

4. For what time was the alarm set?

5. Did the desk have a blotter?

6. How many cigarette butts were in the ashtray?

7. Did they have filters?

8. What article lay between the keys and the magnifying glass?

9. What kind of aspirin did the desk-owner use?

10. Was the bottle mostly full, half full, or only slightly full?

11. What kind of chewing gum was by the phone?

12. Was the dictionary thumb-indexed?

13. How many columns of type appeared on each page?

14. Was there an advertisement adjoining the crossword puzzle?

15. How many letters were in 1-Across?

16. Judging from the position of the magnifying glass, was the desk-owner left-handed or right?

17. What credit card did he use?

18. What was his telephone number?

FOLD THIS PAGE

The crossword on this and the next two pages has two independent sets of clues: "Hard" and "Easier." First, fold this page back on the dashed line so the clues below face the solving grid on page 43. If you use only the Hard Clues (appearing below, and continuing under the grid), you'll find the puzzle uncommonly challenging. If you need help, or prefer a less severe challenge, open to the Easier Clues (tucked in beneath your fold on page 42). Remember, to peek or not to peek is up to you.

The World's Most Ornery Crossword

Word for Word

by Henry Hook

Hard Clues ★★★

ACROSS

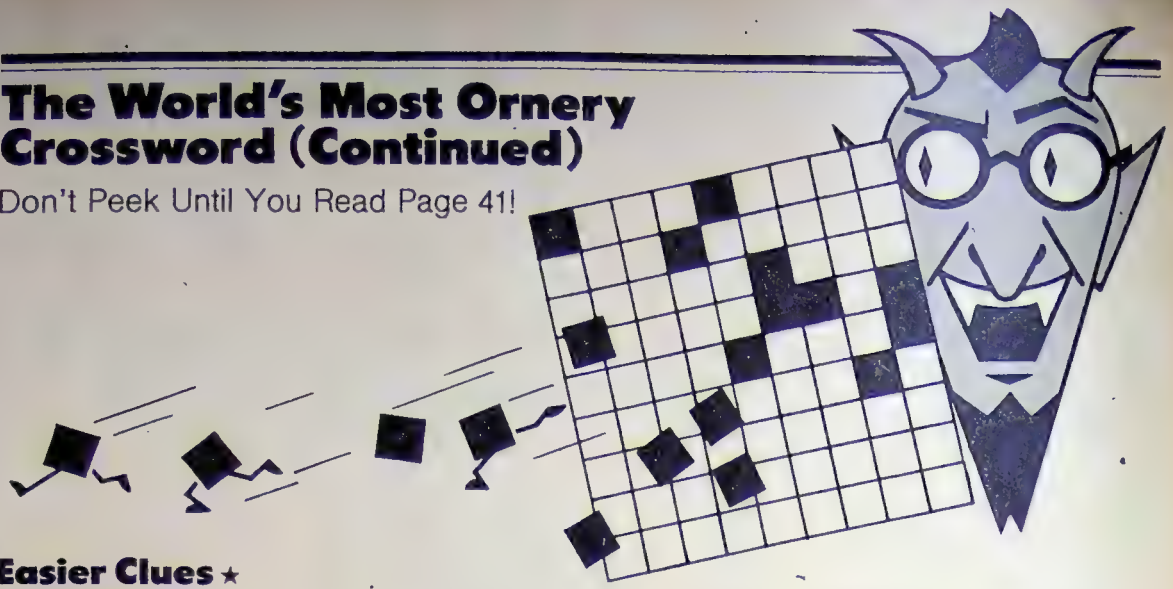
1 Undid the demolition
8 Water near Borneo
15 Rock band's need
18 Bunko
23 Store sign
25 Resort city
26 Part of a date
27 Do right
28 Kosinski novel
30 Grammatical case: Abbr.
31 Auto sun roof, perhaps
32 *Mer* make-up
33 Scream
34 Ctr.
35 Jacket style
37 Liu Pang's dynasty
38 Caligula's predecessor
40 *Ship of Fools* ship
41 Snick's partner
42 Start of a Heyerdahl title
43 Led the meeting
46 Le Carré character
48 Not so relaxed
50 Valjean's crime
51 He wooed Merope
53 Some
54 Melville title character
55 Cheer
57 Gleaned
60 Persuaded
62 Melomaniac's buy
63 Years, to Juan
64 Evoke sympathy
66 Brood
67 Vehicle for the Beach Boys
68 "Tinsel"
71 ♡AQ, to Goren
72 TV oldie, "The Bold ____"
73 Intimate friend
74 Turning point
75 Cigar variety
76 Boss: Abbr.
77 Pampas birds
78 One of the winners
79 VIP in NYC nightlife
80 Prufrock's creator: Init.
82 Nonsense!
83 Part of Q.E.F
84 Signal light
85 Where "Sweet Betsy" was from
86 Arabic letter
87 Son-gun link
88 Pans for the Chans?
89 Woody Allen's ex
90 Half a phrase meaning "timid"
91 Work of fiction: Abbr.
92 Busby Berkeley's *Babes* ____
94 Literature Nobelist, 1944
95 Nickname for a seagull?
96 Prefix for meter or second
97 Filmmaking process first shown in 1955
98 Average man's surname
99 Max Shulman hero
100 WWII Air Force Commander
101 See 75-Down
102 Variety of pear
103 Mort Walker's "Beetle"
104 Truant, in a way
105 Lengthen, as a speech
106 Medium
109 Canine condo
110 Science deg
111 _____ *Dragon* (1978 film)
112 Nine-to-five struggles
114 Erechtheus's daughter
117 Locust
120 Made batrachoid noises
121 Shipping qty.
122 Sunder
124 PBS series
125 1974 sky sight
129 Poetic conjunction
130 Marble
131 Chevalier d'____, 18th-century French spy
132 Risks
133 Medit. island
135 Before Pearl Harbor
137 Stole
138 Wilde equated it with conscience
140 Opener from Browning
143 Author of *Nine Troubled Years*
144 Newspaperman Bradlee
145 "____ (Goo'bye)"
146 Apollo's partner in 1975
147 One of the Addams Family
148 Warning signals
149 Bequeaths

DOWN

1 New Testament book
2 Hermaphroditic

The World's Most Ornery Crossword (Continued)

Don't Peek Until You Read Page 41!



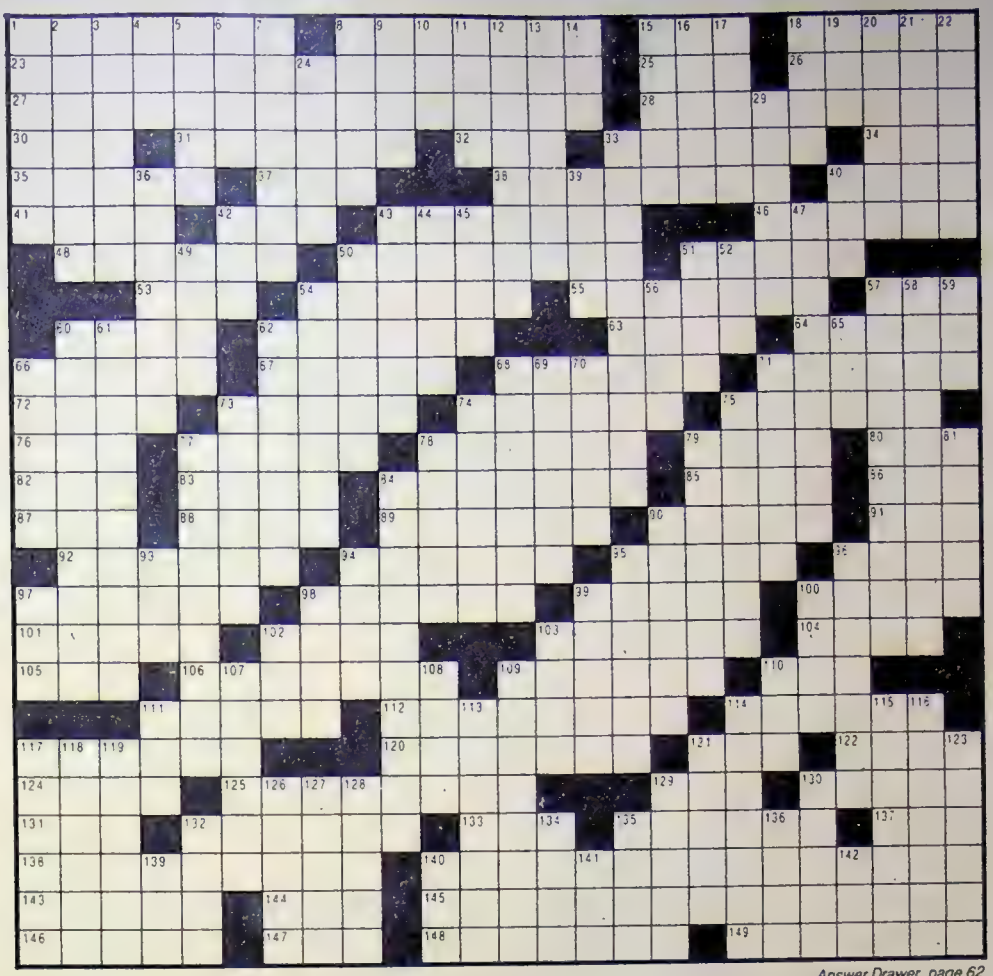
Easier Clues ★

ACROSS

1 Erected again
8 Indonesian body of water: 2 wds.
15 Electrical unit, for short
18 Swindle
23 Sign on a store door: 3 wds.
25 ___ de Janeiro
26 July or August
27 Behave: 5 wds.
28 "Set-up" social engagement: 2 wds.
30 Record of one's savings: Abbr.
31 Choice
32 ___ de cologne
33 Yell: Sl.
34 Center: Prefix
35 Late Indian prime minister
37 ___ Solo, of *Star Wars*
38 Roman emperor
40 Waitress, on "Alice"
41 Snick or ___
42 ___-*Tiki*
43 Presided at a meeting
46 Grinning broadly
48 More nervous
50 Petty stealing
51 "The Hunter" constellation
53 "Have you ___ wool?"
54 Mr. Trudeau
55 Make happy
57 Obtained
60 Opposite of bought
62 Hi-fi
63 Years: Sp.
64 "Look but don't ___"
66 Flock of birds
67 Ford auto, for short
68 Allure
71 Pair of high cards, in bridge
72 Dollar bills
73 Old pal
74 Culmination
75 Crown
76 Director: Abbr.
77 Ostriches' kin (SHARE anag.)
78 Depositor
79 NYC restaurateur Toots
80 Mao ___-Tung
82 Poppycock! (HOB anag.)
83 *Quod* ___ *demonstrandum*
84 Police car light
85 Freshwater fish
86 One Scot. (IAN anag.)
87 *Birth* ___ *Nation:* 2 wds.
88 Chinese cookers
89 "Mary Hartman" actress Louise
90 ___-pamby
91 It follows Oct.
92 Up ___ (angry): 2 wds.
94 *The Long Journey* author
95 Comic Winters, to friends
96 Prefix meaning "one billionth"
97 Movie process of the '50s (ADD TOO anag.)
98 Joe ___, the average guy (OK ADES anag.)
99 *The Many Loves of* ___ *Gillis*
100 Gen. Curtis ___
101 Push a broom
102 Pear variety (COBS anag.)
103 Barnum's partner
104 Off base illegally
105 Beatnik's "home"
106 Mind reader
109 Fido's home away from home
110 Bachelor of science deg.
111 "For ___ sake!"
112 Workaday drudgeries: 2 wds.
114 Jason's bride (SAUCER anag.)
117 Chirping insect
120 Talked like Kermit?
121 12 dozen: Abbr.
122 Tear
124 Kind of lens
125 1974 comet
129 Nevertheless
130 Multicolored stone
131 Eternity
132 *The* ___ *of Pauline*
133 Male counterpart of the D.A.R.
135 Before 1917 or 1941, e.g.
137 ___ constrictor
138 Lack of bravery
140 "___, now that April's there": 5 wds.
143 Viscount Templewood (A HERO anag.)
144 Actor Gazzara
145 Jolson hit: 3 wds.
146 Russian space program
147 Corporate initials
148 Lighthouse lights
149 "All ___ deck!": 2 wds.

DOWN

1 "Friends, ___, countrymen. . ."
2 Unisexual (N.E. PIECE anag.)
3 Removed a player from the game
4 And: Ger.
5 "___ Knew Susie": 2 wds.
6 Circlet
7 TV's "___ Consequences". . 2 wds.
8 Petticoat (NO "I" UP anag.)
9 The A in PTA: Abbr.
10 By way of
11 Actress Bancroft
12 Tranquilizer
13 Men's magazine
14 Donkey
15 Bower of vines
16 Prefix meaning "one thousandth"
17 French soldier (OIL UP anag.)
18 Officer: Abbr.
19 Coal scuttle
20 Shiny paint
21 Clothing
22 "That'll be ___!": 2 wds.
24 Actor ___ Keith
29 Loch "monster"
33 Vienna-born actress: 2 wds.
36 Entertains
39 Mass of ice
40 Wine: Fr.
42 Lock unlocker
43 Sundae garnish
44 Employed
45 Air: Prefix
47 Industrial city of Mexico
49 ___ 500 auto race
50 Connections
51 Smell
52 Hwys.
54 JFK's "109" et al.: 2 wds.
56 Strong as ___: 2 wds.
57 Cuban bay
58 Occurring now and then
59 Commonest word
60 Midwestern state anthem, with "The": 3 wds.
61 Like a baseball pitch
62 Runs naked
65 Lennon's widow
66 Small jazz group
68 Spectacles
69 Mosslike fungus
70 Arabic ruler (in SAME ERROR)
71 ___ surprise (startled): 2 wds.
73 Color: Prefix
74 School session: Fr.
75 Santa's entryway
77 Tied up again
78 Board of wood
79 Cocker ___
81 Messenger
84 Group of performing insects: 2 wds.
90 Earls and barons
93 Lemon drink
94 B'way producer Logan
95 Connected
96 Cream sauce for lobster
97 Recipe abbr
98 Severinsen and Holliday
99 Do the Lindy, e.g.
100 Shoestring
102 Ta-ta!
103 Bird's bill
107 Placed, as a wager
108 Wagon
109 ___ *East of Java* (1969 film)
110 "No seats" sign: Abbr.
111 Actress Dawber
113 Ballerina's slipper: 2 wds
114 Saith "cock-a-doodle-doo"
115 Atlantic food fish: 2 wds.
116 Anthony: It.
117 People of Prague
118 10^5
119 Funnyman Tim
121 Historic Belgian treaty site
123 Anesthetize
126 African antelope
127 ___*nunc* (here and now): 2 wds.
128 Sweet-smelling (LET ON anag.)
129 Threesomes
130 Element No. 18
132 Chief exec: Sl.
134 College military org.: Abbr.
135 Mexican laborer
136 Celebes ox
139 Indeed!: Irish (UAR anag.)
140 Legal betting parlor: Abbr.
141 Big-time operator: Abbr.
142 British business abbr.



Answer Drawer, page 62

Hard Clues (cont'd)

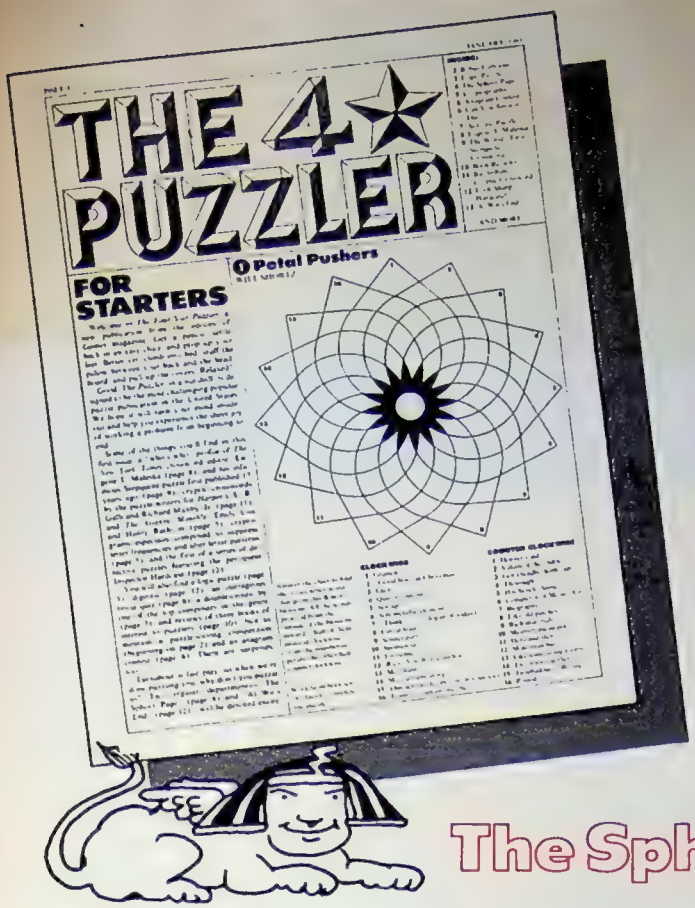
3 Ousted an outfielder
4 *Hansel ___ Gretel*
5 "___ can keep your head. . ."
6 Plane maneuver
7 "Tell the ___ trump—but get the trick" (Twain)
8 Knight's tunic
9 Grp.
10 ___ Lactea
11 Mrs. Mark Phillips
12 Downer
13 Sir
14 "The law is a ___" (Dickens)
15 Tree
16 Prefix with volt or watt
17 Old *soldat*
18 Ldr.
19 Bricklayer's prop
20 Glossy coat
21 Wear
22 ___ *of the Triffids* (1963 film)
24 Gale's teammate
29 Elusive Scot
33 DeMille's Delilah
36 Delights
39 Former duchy on the Rhine
40 Rosé, *par exemple*
42 He was inspired by Fort McHenry
43 Bing, e.g.
44 On the payroll
45 Prefix with dynamics
47 Capital of Nuevo León
49 Midwestern city, for short
50 Two-fers, e.g.
51 Redolence
52 Map lines: Abbr.
54 Torpedo vessels
56 "As ___ goeth to the slaughter" (*Prov* 7:22)
57 Cuban city
58 Infrequent
59 ___ *Fog* (1980 film)
60 With "The," a state anthem
61 Thrown from above
62 Windpw-washer's problems
65 "Sail ___ Ship of State!"
66 Band
68 What the strabismic need
69 Moss
70 Sultan's cohort
71 ___ storm (overwhelmed)
73 Color picture
74 *École* session
75 With 101-Across, one who treats the flue
77 Put in different paper
78 Campaign principle
79 Hunter's companion
81 Diplomatic aide
84 Animal act on a small scale
90 Dukes
93 Summer cooler
94 Rib
95 Made one
96 Lobster dish
97 Rel. of tbsp.
98 AMA types
99 Emulate Nijinsky
100 Add liquor
102 Tournament situation
103 Schnozz
107 Bet
108 Lug
109 Volcanic island
110 Hit sign
111 Jack of clubs
113 Piece of Pavlova's costume
114 Boasts, Biblically?
115 Rockfish kin
116 The Merchant of Venice
117 Pres. Husak's people
118 C
119 Opryland's Twitty
121 Belgian city
123 Benumb
126 Klipspringer's kin
127 ___ *ubique* (here and everywhere)
128 Scented
129 Triumvirates
130 Fluorescent lamp filler
132 Veep's boss
134 Officer training org.
135 Laborer
136 Crossword beast
139 Indonesian island group
140 Gambler's haven, for short
141 Big-shot: Abbr.
142 Inc., overseas

Letter "S" Picture Test ★☆

by Will Shortz

In this picture, it's not hard to find objects whose names begin with the letter S. But how many of these objects, when the initial S is dropped, are "transformed" into *other* objects also pictured here? For example, the STRAP hanging from the horse's bridle becomes the TRAP seen under the table. We know of 18 other such pairs, but we doubt that anyone will be able to find all of them.

Answer Drawer, page 64



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BY PHIL WISWELL

ELECTRONIC GAMING

FROM WRISTWATCH BOWLING TO COMPUTER APOCALYPSE

Twenty years ago this Christmas, I played my first electronic game. It was called Fascination, a race game in which the first player to roll his three balls through fairly simple mazes was rewarded by the activation of his color lightbulb. Despite the crudity of the electronics, which in no way entered into the game itself, Fascination remained popular for years.

Electronic technology has come a long way since Fascination. The development of the silicon chip changed our games and the way we play with them. Toy trucks are no longer pushed, but programmed to attack the family pet. Arcade games fit in your pocket. Dolls, once lifeless creatures, walk and talk better than some of their owners. And chess computers, initially the size of basketball courts, are smaller than breadboxes. We aren't buying simple playthings anymore; we're buying technology.

Photos by Stan Fellerman

Dark Tower is an electronic adventure game for the whole family. The tower swivels so that each player in turn views the screen alone.

Hand-Held, Tabletop, and Board Games

At the Consumer Electronics Show in Las Vegas and the Toy Fair in New York last winter, manufacturers displayed a slew of new products that they hope will entice the inflation-weary to spend $50 on a game. As temptation they offer a variety of small, programmable machines that play more than one game. The appeal of the "programmables," as they are called, is that they mimic the larger video games without preempting the family room television. They are also portable.

The most innovative new programmable is Atari's Cosmos, with a built-in hologram projector that creates three-dimensional displays. Cosmos, which won't be widely available until 1982, will capitalize on Atari's unequalled video game library. Although unique, the holograms in the cartridges we saw were used only for visual effect. When I asked about truly three-dimensional games in which the player could move his object north, south, east, west, and closer or farther, Atari program developers nodded their heads and smiled: "We're working on it."

Entex Industries, whose extensive line of electronic games has been consistently of high play value, brought out two programmables this year—the Select-A-Game Machine ($65) and the Table Top Game Machine ($100)—featuring two-color fluorescent display, a new technique that makes it easier to tell "us" from "them" on the screen. Both systems accept cartridges ($18 each) for Entex's new Space Invader, Basketball, Football, Baseball, and Pinball games (five more are on the drawing boards).

Another innovation many of us have been waiting for is the combination of electronics and adventure gaming. Traditional adventure games such as Dungeons & Dragons from TSR Hobbies require an experienced Dungeon Master (referee) and don't offer solitaire play. But Mattel's Dungeons & Dragons (licensed from TSR) and Milton Bradley's Dark Tower overcome these limitations by using microprocessors to generate the action and keep track of the rules. Mattel's game uses sound effects and a touch-sensitive board to let you know when a dragon is nearby, when a wall can't be broken through, when treasures are at hand, etc., as you move your piece through the dungeon grid. Dark Tower does the same with sound effects *and* pictures.

Hybrid products that combine a calculator or a timepiece with a game are more varied and sophisticated this year than ever before. Among the new hybrids is Tomytronic Wrist Bowling ($40), an LCD digital watch with an alarm clock, a stopwatch, and a ten-frame bowling game. Surprisingly, strategy is not sacrificed for size thanks to the high resolution graphics in the liquid crystal display, a feature developed by the watch industry.

While speech synthesis has been the focus of much research, the games that use it are primarily speaking to children because the speech is somewhat crude and is also limited in vocabulary. But a new speech chip from Votrax will help to change that. Rather than producing whole words, the Votrax chip produces 64 phonetic sounds of the human voice. This allows for a larger vocabulary; and because it also requires less memory than other voice chips, it can be combined with more sophisticated games. One of the first uses of the Votrax chip is in Tiger Electronics' new talking computer for children, which has an impressive 1500-word vocabulary. Mattel and Entex promise sophisticated games using this technology in the near future.

Classic Computer Opponents

The number of different strategy games programmed for computer play has doubled during the past year. And playing

The Great Game Machine (shown here with the Morphy cartridge) doesn't talk; doesn't move its pieces around the board; and doesn't have any sound or light shows. But it does have a very strong chess program, and can be used to play five other strategy games as well.

Phil Wiswell is editor of the *Games & Books* column, which will return next issue

strength, in some cases, seems to have quadrupled, due mainly to the continuing miniaturization of microprocessors.

Applied Concepts and Fidelity Electronics, for years the Macy's and Gimbels of chess machines, have both developed programmable systems that accept cartridges for many classic board and card games, a capacity that will turn some dedicated (single-game) systems into dust collectors. With Applied Concepts' Great Game Machine ($350), you can play chess, blackjack, kriegspiel, reversi, and checkers simply by inserting the appropriate cartridge ($70-$100). More remarkably, the system so far accepts three different chess programs—Morphy Edition Master Chess, Gruenfeld Edition Master Chess Openings, and Capablanca Master Edition Chess End Games—each containing 8,000 bytes (or units) of instructions. The unique feature of this system is that you can use the three cartridges sequentially in the same game, yielding a 24,000-byte program. Our chess expert, who usually scoffs at these machines as "weaklings that roll over and play dead once they're in trouble," tried the Morphy cartridge with the machine on the second lowest of its nine levels. With the machine down a piece, our expert waited for it to flounder. To his surprise, it began to play more tenaciously, creating threats that our expert did overcome, but not without worry.

World Championship Baseball from Mattel is a sophisticated two-player game offering such subtleties as pinch hitters, relief pitchers, bunting, etc, all hidden from the opponent by a hinged door.

Fidelity's Card Challenger is the first machine developed to play more than one card game. Using real cards and an optical scanner, the machine will be able to play against, or as partner with, humans at twelve games from Gin Rummy to Solo Whist. (The unit has been delayed because it was not playing up to snuff, according to Fidelity.)

Fidelity premiered five other machines this year, including the unique Dame Challenger ($150) that plays International Checkers on a 10 x 10 board. It's more complex and strategically deeper than the checkers most of us play. Fidelity also added a Reversi (better known as Othello) Challenger ($150) to its line. It has 18 levels (!), allows a player to change levels or sides at any point during a game, solves reversi problems, and features Fidelity's touch-sensitive board. And Gabriel, maker of Othello, has just brought out Computer Othello ($100), a stylish, compact, tabletop game with eight levels of play. I have not played the programs against each other, but I have played both machines on similar levels and find them comparable in playing strength.

New this year from Europe are no less than seven chess computers from two companies, Novag and SciSys. Novag's Savant ($625) uses the largest single program (called MYCHESS) in a self-contained unit. It is small and stylish, capable of solving mate-in-seven problems; and instead of real chessmen, Savant's pieces are displayed on a built-in LCD video screen. Another newcomer from Novag is the Robot Adversary ($1,300), whose robotic arm actually moves its pieces around the board. But at that price it should serve coffee, too.

Two of the five new chess computers from SciSys also feature video screen display rather than chessmen, a trend we like since it eliminates the agony of lost pieces. Executive Chess ($130), powered by two nine-volt batteries, is potentially the best portable chess computer on the market.

Video Games: A Long Way from Pong

The hot new features in video games this year are remote-control play from Atari, voice synthesis from Mego, sophisticated strategy games from Magnavox, and excellent graphics from Mattel.

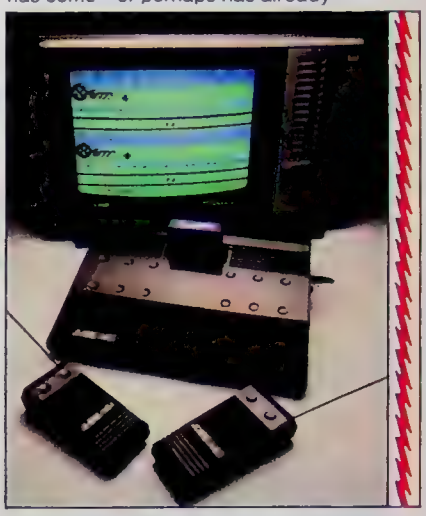
Perhaps the most exciting product is Atari's Remote Control Video Computer System ($200). Identical in function to Atari's existing V.C.S. (the same cartridges fit both), the new hardware has no wires connected to the hand controls! They operate by remote control up to 50 feet away from the television. An engineering feat, the controls combine paddle, joystick, and fire button, thus eliminating the need to buy different hand controls for some of Atari's games. The fire buttons are heat sensitive, making firing faster and more precise. In support of both the old and new systems, Atari introduced four new game cartridges—Asteroids (a good version of the popular arcade game), Warlords (a two-player pong plus breakout-type game), Video Pinball, and Othello.

In addition to the 50 game cartridges now available from Atari, there are 10 more from Activision, the only company to specialize in video game software. Although Activision's games don't contain as many variations per cartridge as Atari's, play value is every bit as good. If you've played its new games—Laser Blast, Kaboom!, Tennis, or Freeway—then it won't surprise you to learn that all four programmers come from Atari.

Mego's introduction of a programmable video game system utilizing voice synthesis was a surprise at C.E.S. It's hard to tell when (and even if) this one will be produced. But we're watching . . . er, listening.

Magnavox has a new series of master strategy games for its Odyssey² video game system, the first of which was Dynasty (Othello). The new game this year is Quest for the Rings, in which players chase the elusive Rings of Power across the Dark Land, working as a team to combat mythical creatures and find treasures. Next in the series is a game based on military battles, in which players try to re-create historical situations.

A game system that can be converted into a relatively sophisticated home computer remains a good idea whose time has come—or perhaps has already passed. While this is the best way to test the waters of computing, the cost of conversion is rapidly approaching that of a home computer. Several years ago, Mattel introduced a new system called Intellivision. The Master Component ($300) is the most advanced home video game you can buy, with superb high-resolution graphics that bring the 30 available cartridges to life on the screen like no other system. An optional Keyboard Component ($700) converts the system to a home computer with 16K bytes (expandable to a huge eight megabytes). But



Atari's new Video Computer System comes with remote hand controls and an Asteroids cartridge. Now you can play from the comfort of your favorite chair, from your bed, from the bathroom. . . .

Intellivision is half video game, half keyboard, and the two fit snugly together to make a home computer.

Mattel has been promising the Keyboard Component for the past three years without actually putting it on the market. With the pace of electronic technology and the trends in pricing, further delay may make Intellivision obsolete before the keyboards reach the stores

For more than a year owners of the Bally Professional Arcade (still $300) feared that it might be discontinued, leaving them with no source for new software. But Astrovision has taken over the system from Bally, created five new games that are as good as the existing 19, and introduced a ZGRASS-32 keyboard ($599) that turns the unit into a 32K home computer. ZGRASS is a powerful programming language—which is strange to see used in a low-end home computer as the industry moves towards BASIC as the standard language for beginning programmers. The software developed by Astrovision and Bally allows the user to create games, displays, music, animation, etc., all in 256 colors.

Terminal Competition

The most involving form of electronic gaming takes place at a computer terminal, so this year's price reductions are most welcome. The companies marketing home computers encourage the use of games on the theory that once you can manipulate the keyboard to shoot down alien spaceships, you can manipulate it to run an accounting program.

Texas Instruments is offering the most enticement with its TI-99/4, reduced from $950 to $650. The computer is supported by more than 500 software programs, and soon this number should rise dramatically since TI has decided to make its three programming languages available to "third-party authors," (you and me). Owners of the TI-99/4 can also subscribe to TEXNET, a service from Source Telecomputing Corp. that offers games, news, weather and travel information, financial reports, electronic mail, and other niceties.

New this year from Commodore (maker of the popular PET computer) is the VIC-20, a color computer for $299 (less than many TV sets). The VIC-20 comes with only 5K bytes of memory, but it is expandable to 32K and accepts the usual peripherals like a modem and a printer. Designed for immediate "plug in and go" use by the consumer, the VIC-20 was introduced via two games—Chess and Space Invaders

Recently announced price reductions make the Atari 400 computer now available with 16K bytes of memory for $630 and the 8K version for $499. Atari has a 9 A.M. to 5 P.M. "hot line" for customers having computer trouble, and will begin authorizing qualified retailers across the country to act as Atari Service Centers. Two of Atari's three new computer

Computer Othello uses LCD (liquid crystal display), which creates better graphics and uses less power than LEDs (light-emitting diodes), but precludes the use of color.

games—Asteroids and Missile Command—are familiar adaptions of the popular arcade games. But there is nothing like SCRAM, in which a player is in control (or out of control!) of a nuclear power plant that is elaborately illustrated from pumps to reactor. The object is to produce the maximum amount of energy before shutting down the reactor or creating a meltdown. Atari calls this an educational program because you learn the laws of thermodynamics, how a nuclear power plant operates, and how to make certain kinds of decisions. True, but I still call it a game.

The Sinclair ZX80 home computer, recently introduced at the impossible-to-beat price of $199.95, comes with only 1K bytes of memory, just enough to learn the basics of BASIC. But an optional memory module ($99.95) increases this power by 16 times.

In a move to compete with Radio Shack's TRS-80 computer (sold in 8,000 stores coast to coast), APF Electronics slashed the price of its Imagination Machine home computer from $595 to $395, and announced the IM II, a business computer for $1,195 that is expandable to 75K bytes.

The Software Explosion

Most computer users depend on professional programmers to provide a range of applications. This has given rise to a "cottage industry" of thousands of programmers, writing and introducing software at a fantastic rate. In addition to programs for education, personal development, and home finances, these programmers are creating entertainment—computer games and simulations of all kinds.

From Microsoft Consumer Products comes a unique idea: Olympic Decathlon ($24 95) for the TRS-80 and the Apple II Each of the ten events—from the 110 meter hurdles to the pole vault—features full graphics and animation, and scores the player by Olympic standards. For the air-war buff, Discovery Games recently introduced six new war games for the TRS-80, the PET, and the Apple. Each historical simulation puts the player in command of a fighter squadron in one of World War II's decisive campaigns. Strategic Simulations just added three new games to a line of seven for the Apple II and TRS-80: Cartels & Cutthroats (the dastardly business of manufacturing), Operation Apocalypse (the invasion of Europe), and Torpedo Fire. All are priced at between $40 and $60. Microcomputer Games, the year-old division of Avalon Hill, recently introduced The Lords of Karma, an adventure/fantasy game for the TRS-80, the PET, and the Apple, to its line of 10 computer games. And Automated Simulations, with half a dozen complex adventure games already in its repertoire, now offers Tuesday Morning Quarterback.

Yes, we've come a long way from Fascination. Electronic technology is doing for games what disco music did for roller skating—attracting and captivating a broader and, in many cases older audience of players who embrace electronic gaming as part of the pop culture. We want more sophisticated, more varied, more stimulating games. We want them to involve all our senses, to dazzle us with light shows and sound effects that will leave us breathless. And that, year by year, is what we are getting.

Since you missed *Ares* nr. 6 and the great game inside it, –here's your abbreviated edition

Pandora Tech

Transcript of Transmission from Eridani 6-K Mission:

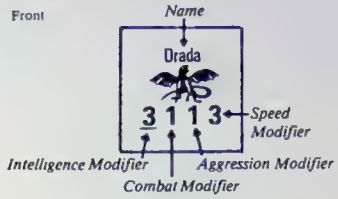
HOO! LOOK AT THAT ONE! IT'S A BIG SUCKER ALL RIGHT! HESSY ARE YOU COPYING?

Roger, Skraaling. Subject appears marsupial to me. Perhaps an early mammal...

LOOK AT IT JUMP! C'MON, HESSY, YOU EVER SEE ANYTHING JUMP LIKE THAT? MUST LEAP 15 METERS AT A TIME!

[2.6] The creatures and artifacts are encountered in the environs during the course of play. The player may attempt to capture or acquire them for purposes of victory.

SAMPLE CREATURE COUNTER



[8.2] Encounter Strategy Table

DIE	COMMUNICATE	CAPTURE OR KILL	FLEE
— 1	010	011	012
0	013	014	015
1	013	014	015
2	016*	017*	018*
3	019	020	018
4	019	020	018
5	016*	017*	018*

Facts for Fantasy

The Return of the King

According to Sir Thomas Malory, the author of the great fifteenth-century *Morte D'Arthur*, "sum men say in many partys of Inglonde that Kynge Arthur ys nat dede" Where these men said he went for the healing of his wounds was the island of Avalon, identified either as a sort of Celtic Never-Never Land, like Tir n'a N'og, or as Glastonbury

EXPEDITION EVENT PARAGRAPHS

001. If the distance travelled in the current interstellar jump is three hexes or greater (including the hex of origin), navigational error has put the *Pandora* slightly off-course; one extra tour month is expended. If the distance travelled is two hexes or less, no interstellar event occurs. Proceed to use of the Planet Table.

002. As the shuttle sets down, mechanical problems and unexpected terrain variation threaten to cause an accident. If the navigator is aboard the shuttle, go to ¶ 070. If the navigator is not aboard, go to ¶ 148

GAMES RATING CHART

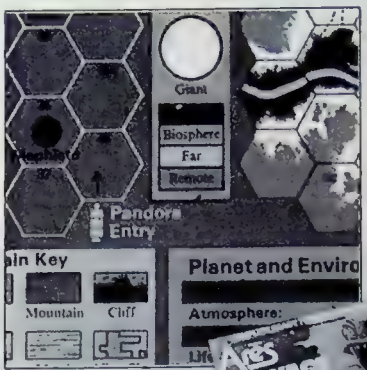
SCIENCE FICTION & SCIENCE FANTASY

Title	Pub	Pub Date	Price	Accep	%	Comm	Time	Soli
1. Traveller	GDW	7/77	12	7.5	38	8.2	5	5.5
2. Imperium	GDW	12/77	10	7.3	32	6.1	8	2.5
3. Creature_Sheboygan	SPI	4/78	4	7.1	63	5.0	1	8.5
4. GEV	MGC	7/8	3	7.1	36	7.0	7	5.5
5. Freedom in the Galaxy	SPI	8/78	20	7.1	36	7.0	7	5.5
6. Ogre	MGC	5/77	3	7.0	52	4.0	1	8.5
7. Starfleet Battles	TFG	11/79	13	7.0	23	na	na	na
8. Cosmic Encounters	EP	7/6	12	7.0	23	3.5	1	2.0
9. Dark Nebula	GDW	2/80	6	6.8	11	5.6	2	2.5
10. Battlefleet: Mars	SPI	4/77	15	6.8	32	6.0	6	3.0
11. John Carter of Mars	SPI	5/79	20	6.7	32	6.0	4	5.5
12. Stellar Conquest	MGC	2/75	13	6.7	22	5.0	6	3.0
13. Objective: Moscow	SPI	3/78	27	6.5	18	5.0	30	5.0
14. Triplanetary	GDW	9/73	10	6.5	12	5.7	2	4.0

Science for Science Fiction

Prehistoric Genetics

Not all extinct animals come to us solely in the form of bones. In the past century, several frozen mammoths have been thawed out in Siberia and Alaska, while a pickled rhinoceros has been extracted from a Polish swamp, and New Zealand swamps have yielded up specimens of the giant moas that once grazed those islands



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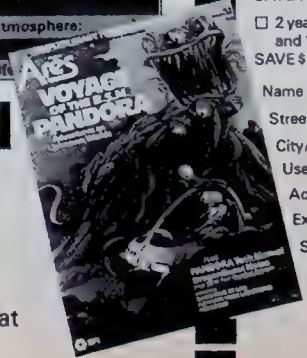

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COLOR GUARD

A STRATEGY GAME FOR 2 PLAYERS

Illustration by David Herbick

BY R. WAYNE SCHMITTBERGER

RULES

Equipment Two contrasting sets of eight pieces (coins or buttons can be used), each set consisting of three Flagbearers and five Guards; and the board shown.

Setup Each player chooses a different end of the board and sets up his pieces there, one piece per square. Flagbearers are placed on the end row (the diamond squares), and Guards on the second row (the dotted squares).

Object The first player to move any three of his pieces onto the three diamond squares on his opponent's side of the board is the winner. A player also wins if he reduces his opponent to fewer than three pieces, or if his opponent has no way to make a legal move.

Movement In turn, each player moves any one of his pieces in accordance with the following rules:

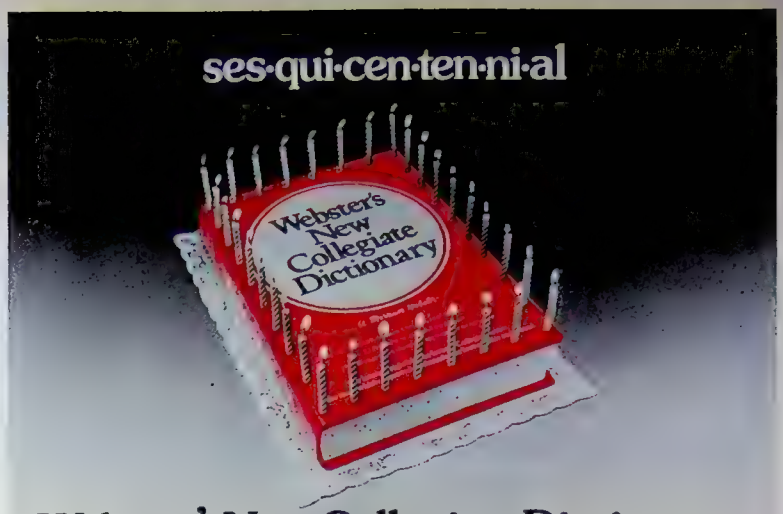
1. A Flagbearer may move any number of squares straight ahead, diagonally forward, or sideways. It may not jump over other pieces

2. A Guard moves in the same manner as a Flagbearer, but with this restriction: Its move must both begin and end on squares of the same colors as those on which its own Flagbearers currently rest. For example, if a player has Flagbearers on green and blue squares only, he may move Guards only from green to green, blue to green, green to blue, or blue to blue squares on that turn. *Note:* Only the colors of the initial and final squares of a Guard's move are significant. A Guard may pass over squares of any color.

Only one piece may occupy a square at a time. No piece may ever move backwards.

Capture A piece may end its move on a square occupied by an opposing piece. The piece landed on is "captured" and is removed from play. Guards may capture opposing Guards or Flagbearers, as long as they observe all movement rules while doing so. Flagbearers may capture opposing Guards, unless the Guards are on diamond squares; but Flagbearers may only capture opposing Flagbearers that have not moved from their initial row of diamond squares.

Draws In the unlikely event that neither player can achieve victory, the game is a draw.



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☐ Sri Lanka (Ceylon)

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Shortly after we select a child for you, we can send you a photograph and brief personal history, if you desire.
☐ Yes ☐ No

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If desired, correspondence can help build a meaningful one-to-one relationship. Translations, where necessary, are supplied by Save the Children.
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Several times a year you can receive detailed reports on community activities to benefit your sponsored child. These community reports show how your money is being used most effectively for permanent improvements to the child's environment—for health care, education, food production, nutrition, and community training. Would you like to receive such information?
☐ Yes ☐ No

6 Do you wish verification of Save the Children credentials?
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☐ Yes ☐ No
(A complete audit statement is available upon request.)

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"IT'S NEWS TO US"

STRANGE AND REMARKABLE OCCURRENCES

When Jeremy Piltdown, the Baron of Bluff, recently met up with John Train, the Prince of Probity, they stayed up half the night swapping tales of fiction and fact so unusual that we could hardly distinguish one from the other. Here are Piltdown and Train at their storytelling best. A careful listener may be able to tell them apart. Which of these news items really happened and which never occurred? *Answer Drawer, page 63*

HITTING STRIDE

The novelist James Michener wrote his 800-page bestseller *Hawaii* without benefit of a plot outline and in a single continuous draft without corrections over a seven-week period on a manual typewriter. The rough draft was never revised by the author before submission, and the copy editor confessed he could find no reason to make a single change in the manuscript. The typesetter's galleys were accepted without corrections, and the first edition of the finished work contains no typographical errors

GREEK DRAMA

An Athenian took a taxi to his lady-love's house, letting himself in with a key she had given him.

After a while they were surprised *in flagrante* by the taxi driver, who had let himself in with his own key. It was his house. The lady was his wife.

Whale of a Tale

St. John's, Newfoundland—While being rendered for spermacetti at an oil-processing plant here, a 14-ton gray whale dramatically exploded, spraying large chunks of blubber throughout the factory and forcing it to close for two months. While the mess was being cleaned up, three unexploded German torpedoes were found partly digested in what was left of the whale's stomach.

INVESTIGATE BEFORE YOU INVEST

The result of a door-to-door survey of five thousand typical Americans was reported by *Collier's* in May 1949. Asked what was bought and sold on the New York Stock Exchange, 64 percent replied, "Livestock."

Mrs. Czermak's Descent

Prague—Vera Czermak jumped out of her third-story window when she learned her husband had betrayed her.

Mrs. Czermak is recovering in the hospital after landing on her husband, who was killed, the newspaper *Vecerny Pravda* reported today

A DIFFICULT PATIENT

Ibsen himself spent the last six years of his life unable to write, staring out of his window in Christiania

One day when a nurse announced that he was feeling better, the old curmudgeon found the ultimate putdown. "On the contrary!" he said, and died

HARASSMENT

A conservatively dressed man who boarded the Seventh Avenue Subway at Times Square station was the victim of a strange assault, reported in March 1969.

He was followed by a weird youth with frizzy hair who suddenly stuck his foot in the door, preventing the train from departing. Pointing his finger at the gentleman, he screamed over and over, "Give me back my yo-yo!"

The gentleman maintained a dignified silence.

Finally another passenger, announcing that he had to get to work, pushed the deranged youth's foot away, the doors closed, and the train pulled out of the station.

Just below Thirty-Fourth Street, the gentleman reached into his coat pocket and, smiling enigmatically, began to spin a large, red yo-yo.

TRAFFIC

In 1895 there were only two cars in the whole state of Ohio. They collided.

HARE TRIGGER

Near Louisville, Kentucky, a rabbit reached out of a hunter's game bag, pulled the trigger of his gun, and shot him in the foot

LIEBESTODT

Married: Moses Alexander, aged 93, to Mrs. Frances Tompkins, aged 105, in Bata, N.Y., on June 11, 1831.

They were both taken out of bed dead the following morning.

DEAD DUCKS

Dr. Ernest J. Fox, a veterinarian, of Georgetown, South Carolina, and his friend, Marshall Trueluck, went duck shooting at Annandale Plantation in 1976.

Two single birds, coming from opposite directions, whistled in to look at the decoys.

They cracked head-on with great force. Both splashed into the water, stone dead.

WALKING IRON MINE COLLAPSES

Tobata, Japan—A bet made several years ago finally caught up with 51-year-old Otoichi Kawakami last night.

Mr. Kawakami had convulsions and fainted in downtown Tobata. He was rushed to a hospital where surgeons removed from his stomach 13 safety razors complete with blades, 21 nails, a fountain pen, a pencil, 56 toothbrushes, 20 chopsticks, a piece of wire netting, and part of the ribs of an umbrella. He said he had swallowed the assortment on a bet several years ago.

You Only Go Around Once

Le Havre, France—Ulysse, a wily Belgian sheepdog belonging to a family here, strayed onto a transatlantic ship headed for Halifax in 1903. When he arrived there, he was identified by the nametag on his collar, but while arrangements were being made to ship him home, he escaped from custody.

He was successfully apprehended, albeit briefly in each case, in Toronto and Whitehorse in 1904, Nome in 1905, Vladivostok in 1908, Kabul in 1912, Karachi and Berlin in 1913, and finally again in Le Havre in 1915, where his arrival was greeted with great celebration. He has not left home since.

A GAMES 2-IN-1 CONTEST ★★★

CALCULA-TRIVIA

$$X = \frac{\dfrac{\dfrac{s(n-g)}{\eta} + h - \delta}{(\epsilon - t)(\gamma + k)^{(t-\epsilon)}} - \dfrac{(e+b)^{\phi} + w^{(v-r)}}{dfmv} - \dfrac{(u+\phi p)^{\lambda} + qz - a^{a}}{r\lambda}}{\dfrac{uh}{\left(\dfrac{k^{m}}{\lambda} - \dfrac{(\lambda\mu - m)k^{\lambda(\epsilon-b)}}{y^{\sigma}} - \dfrac{n-\phi}{k}\right)^{\frac{a}{m}}} - \dfrac{\beta^{(p\alpha-\lambda)} + \dfrac{j}{p} - \eta}{(\theta+\zeta)(\epsilon-f)\dfrac{q}{\delta}}} + \dfrac{(n-bk)\left(j + \dfrac{r-\mu}{a}\right) + m}{c\gamma - y - \xi + \lambda^{\zeta}}$$

Clip or copy this entry blank and mail to either **Hard Calculatrivia** or **Impossible Calculatrivia, Games, 515 Madison Ave., NY, NY 10022.**
Entries must be received by August 3, 1981.

X = _____

Questions Answered (check one):
Hard ☐ Impossible ☐

a = _____ j = _____
b = _____ k = _____
c = _____ m = _____
d = _____ n = _____
e = _____ p = _____
f = _____ q = _____
g = _____ r = _____
h = _____ s = _____
t = _____ ϵ = _____
u = _____ ζ = _____
v = _____ η = _____
w = _____ θ = _____
y = _____ λ = _____
z = _____ μ = _____
α = _____ ξ = _____
β = _____ σ = _____
γ = _____ ϕ = _____
δ = _____

Name _____

Street Address _____

City _____ State _____ Zip _____

All entries become the property of *Games* Magazine. None will be returned.

After an absence of nearly two years, the dread Calculatrivia has returned. This time, we are presenting two different contests—one for those of you who like a Hard challenge, and one for those of you who are willing to try something that is nearly Impossible. To enter, "all" you have to do is choose one of the two sets of 35 questions, then use the answers to those questions to determine the value of X in the equation at left.

Note that the same equation is used in both contests. A knowledge of ninth-grade math should suffice to solve the equation—provided, of course, that you've correctly determined the values of all the unknowns (represented by English and Greek letters). Most of the questions in the Hard contest can be answered by consulting an almanac and a dictionary; the Impossible contest, on the other hand, requires more of a marathon scavenger hunt. You may enter both contests if you dare, but you must mail your entry to each under separate cover.

In determining the unknowns, do not strain to find unusual ways to interpret any of the questions. Some may be tricky, but in each case the answer we believe to be correct is the most literal and straightforward one. In addition, please observe the following rules.

1. Do not round off anything, unless specifically instructed to do so.

2. If a square root appears anywhere in either contest, evaluate it as the positive square root only. Throughout the equation, standard mathematical usage is in effect.

3. The value of X that appears on your entry blank must be expressed in simplest form. If your answer were $^{10}/_{5}$, you would write it as 2; if your answer were $^{10}/_{4}$, you would write it as $2\frac{1}{2}$ or 2.5.

4. The winning entry will be the one that correctly states the value for X. If no entry correctly states the value for X, then the entry with the greatest number of correct values for the 35 unknowns will be the winner. In either case, ties (if any occur) will be broken by random drawing.

5. Please do not call us with questions of interpretation.

How to enter Fill in the entry blank or a facsimile, and check the box that corresponds to the question set answered. Include the value not only for X but also for each of the unknowns. You may enter either or both contests as many times as you wish, but each entry must be mailed under separate cover, addressed to either "Hard Calculatrivia" or "Impossible Calculatrivia"; entries addressed simply to "Calculatrivia" will be disqualified. Entries may be submitted by telegram or Federal Express, but not by telephone or by hand. **Entries must reach us no later than August 3, 1981.** —R.W.S./H.H.

Grand Prize Magnavision® Videodisc Player with optical laser scanner and stereo sound, from Magnavox.
Four Runner-Up Prizes The Casio FX-602P Programmable Memory Calculator

HARD QUESTIONS

a = Telephone area code of Montana, minus telephone area code of Alberta

b = Number of letters in the longest surname of any U.S. president

c = Number of the major interstate highway linking Des Moines and Cheyenne

d = Number of European countries with European areas smaller than France but larger than Yugoslavia

e = Number of commas in a googol, when written in the usual American notation (e.g., one million has two commas)

f = Homophone for the verb *ate*

g = Birth year of poet-artist-mystic William Blake

h = The resulting sum if all i's, v's, x's, l's, c's, d's, and m's in this question were converted to their Roman numeral equivalents and added together

j = Number of smurgles in a trog, if there are 111,284,641 cubic smurgles in a cubic trog

k = Number of the Super Bowl in which the first safety in Super Bowl history was scored

m = Numbur of mispelled werds in this question

n = Year in which George Washington married Martha Custis

p = Number of kwacha in 50 ngwee

q = Number of states whose official two letter postal abbreviations contain none of the vowels AEIOU

r = Number of triangles formed by drawing a trapezoid and its two diagonals

s = Ratio of a British trillion to an American trillion

t = Number of the B vitamin group to which cobalamin belongs

u = In baseball, the number of innings in three outs

v = Clementine's shoe size, in the old song

w = Most recent leap year divisible by 61

y = Number of performances of *Grease* on Broadway

z = Number of states that first gained admission to the United States during the nineteenth century

α = Number of different Monopoly board spaces specified by name on Chance and/or Community Chest cards

β = First three digits of the zip code of Allendale, Illinois

γ = Number of dimes in a dollar, plus number of nickels in a quarter, minus number of dollars in a nickel

δ = Number of centimeters in .030430 kilometers

ε = Number of cohorts in a Roman legion

ζ = Number of letters in the name of the state whose capital is alphabetically last among state capitals

η = Sum of the number of counties in Wyoming and Oregon

θ = Year that will mark one millennium from the start of World War I

λ = Number of continents that have peaks higher than Mt. McKinley

μ = Number of fathoms deep Ferdinand's father was lying, according to Ariel in *The Tempest*

ξ = 1681 subtracted from the awful fraction 7,625,918,497/8,445,235,397*

σ = Fewest possible number of squares formed when three horizontal parallel lines cross three vertical parallel lines

φ = Number of Fates in classical mythology

* The contrived nature of this question is something of an embarrassment to its creator. For solvers, however, it will have the virtue of making the arithmetic in the equation come out nicely.

Grand Prize Magnavision® Videodisc Player with optical laser scanner and stereo sound, from Magnavox
Four Runner-Up Prizes The Casio FX-602P Programmable Memory Calculator.

IMPOSSIBLE QUESTIONS

a = In the nineteenth century, the number of U.S. presidents who made no Supreme Court appointments

b = Face value of a W in French edition of Scrabble Crossword Game

c = Atomic number of the element whose name is formed by deleting the first letter of the name of another element

d = Fahrenheit temperature at which °F + °C = 0

e = Winning margin (in points) of the first Rose Bowl

f = Number of methuselahs in a nebuchadnezzar, according to *The World Almanac and Book of Facts 1981*

g = Number of known planets whose days are longer than their years

h = Sum of all whole numbers between 1 and 100 whose English names are anagrams of the English names of *other* whole numbers between 1 and 100

j = In bridge, the points scored for setting the opponents 13 tricks in a contract of seven hearts doubled, redoubled, and vulnerable

k = Value of the Egyptian hieroglyph resembling an inverted U

m = The cube of the square root of one-fourth the square of one-sixth the cube root of 12,096

n = Page number in the main body of *Webster's Third* (Unabridged) on which "calculatrivia" would appear as an entry, if it were a real word

p = Sum of the numbers accompanying the names of all Roman Catholic Popes elected between 1900 and 1980

q = Number of Texas' 254 counties whose names contain none of the letters *t, e, x, a, s*

r = The area, to the nearest square inch, of a regular dodecagon having a perimeter of 12 feet

s = Number of Don Giovanni's romantic conquests in Spain in Leporello's *Catalogue* aria, according to *The Opera Lover's Quiz Book*

t = Number of hours a watch should be set back in flying from Bombay, India to New York, if both are on standard time

u = Number of different suspect-weapon-room combinations in Clue

v = Surface area of a sphere having a great circle of area 403

w = Patton's rank in the 1909 West Point graduating class of 103

y = Most recent year, excluding 1981, in which no American won a Nobel Prize

z = Number of faces on a polyhedron having 36 edges and 14 vertices

α = In rolling three standard backgammon doubling cubes, the probability that the sum of the numbers rolled will be a multiple of 20

β = The root-mean-square of all integers from −5 to 5, inclusive

γ = Number of the *Moby Dick* chapter entitled "The Hat"

δ = Number of Soyuz craft in which Valery Ryumin set a space endurance record in February-August 1979

ε = In shillings, amount of Dr. Watson's daily pension at the time he met Sherlock Holmes

ζ = Number of Earth scientists who reach Metaluna in the 1955 film *This Island Earth*

η = Sum of all even numbers of the form $2^x + 3^x$, given that x is an integer

θ = Fibber McGee and Molly's house number

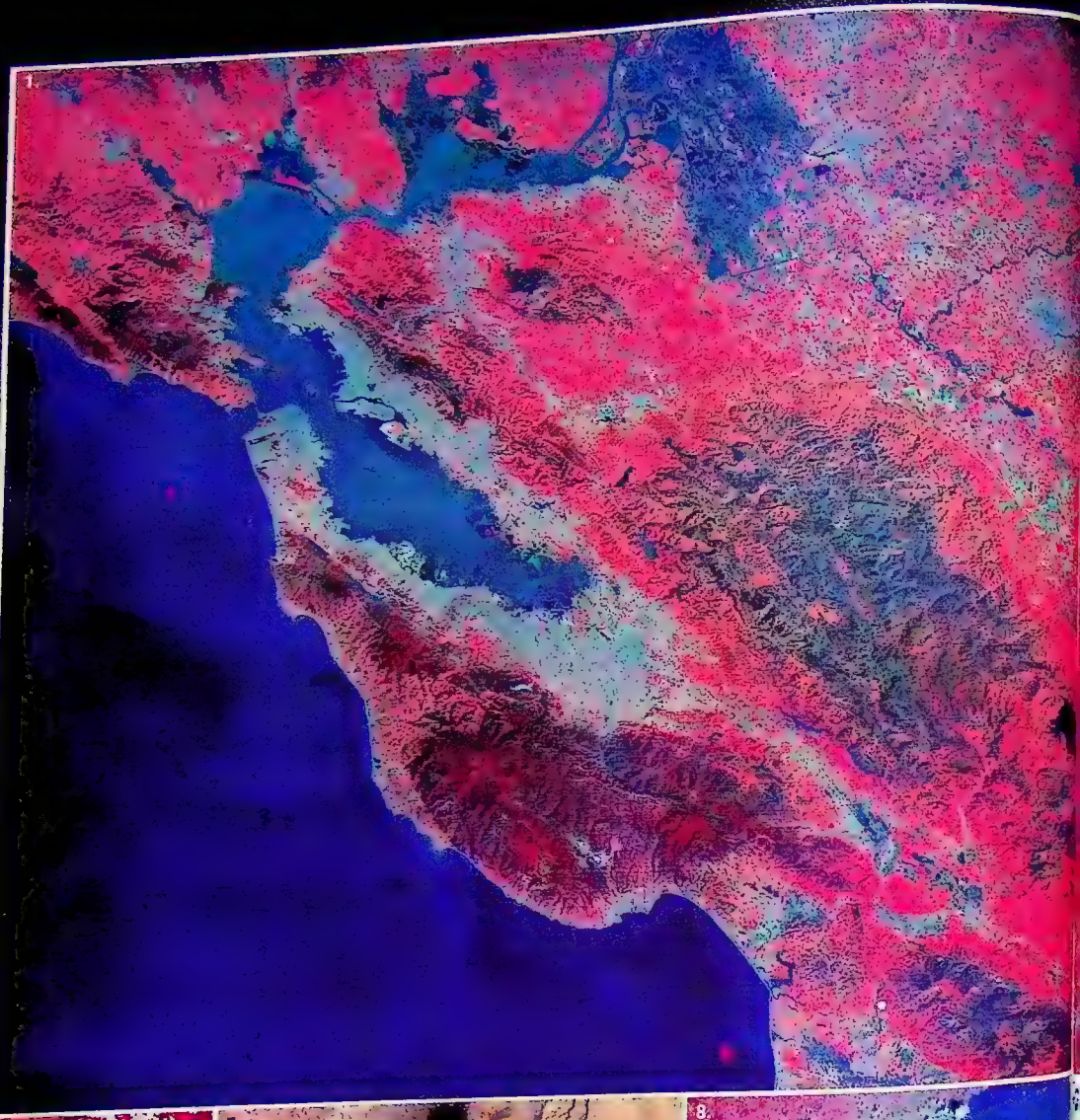
λ = Number of orange Padwars in a game of Martian chess, according to Edgar Rice Burroughs

μ = Number of days in 1984 that will precede Easter that year

ξ = Base-12 number 4489, minus base-11 number 4489, expressed in base 10

σ = Total lines of dialogue spoken by title characters in *Waiting for Godot* and *Come Back, Little Sheba*

φ = Number of questions in this contest ("Impossible" list only) whose answers are rational but not integral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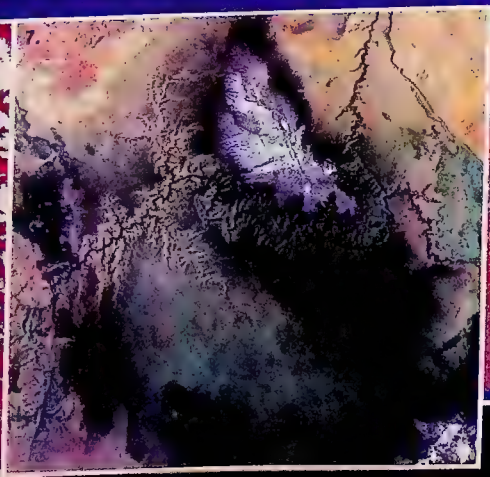
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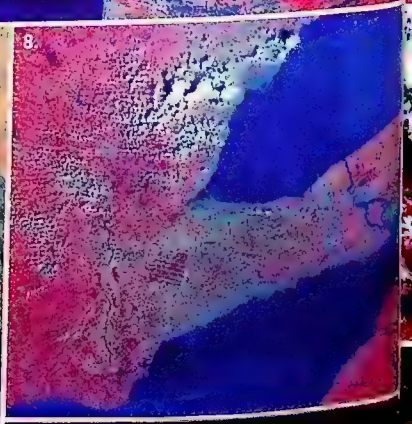
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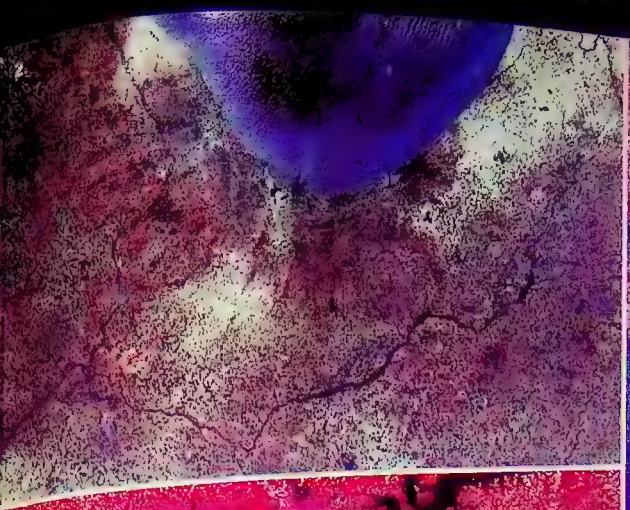
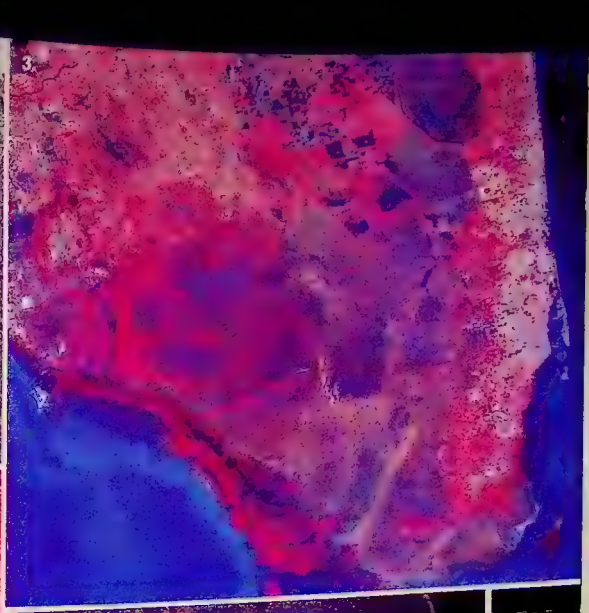
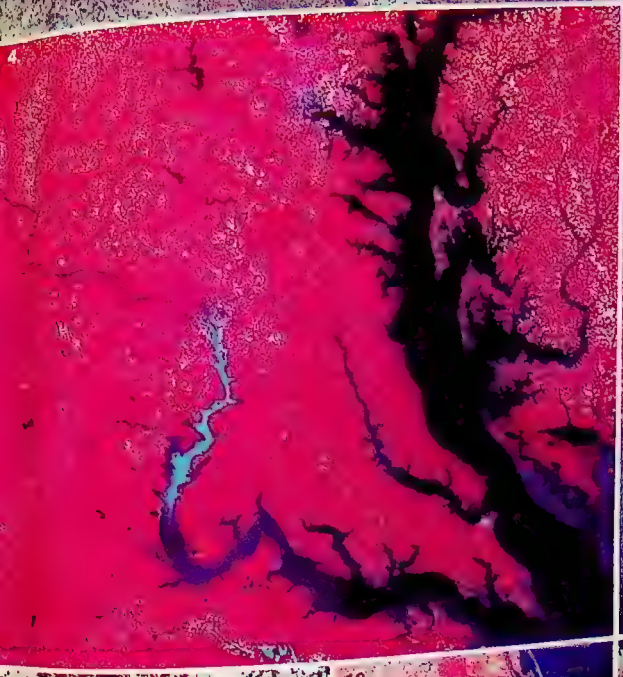
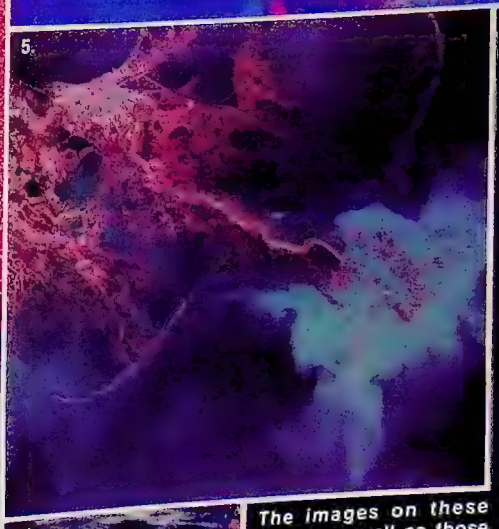
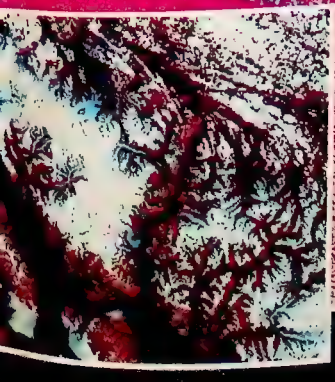
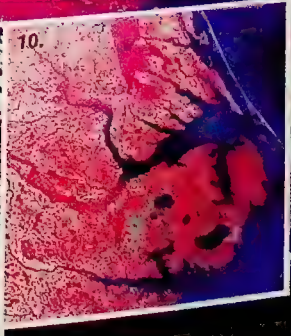


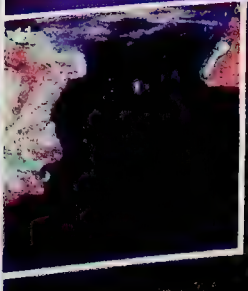












EYEBALL BENDERS IN ORBIT ★★

By studying the coastlines, visible cities, and other details, can you identify the view in each picture?

The images on these pages, as well as those on this issue's cover, are satellite photographs of various regions of the United States, once in combination with Canada, and once with the Soviet Union. The Landsat spacecrafts that took the pictures use "remote sensing" photography, in which colors do not appear as they would to the eye: vegetation shows up red; water, blue or black; soil, either blue, yellow, or brown; and cities, blue or black, typically with crisscrossing lines. The tops of all the photos are oriented north, or slightly east of north.

Answer Drawer, page 64

CONTEST RESULTS

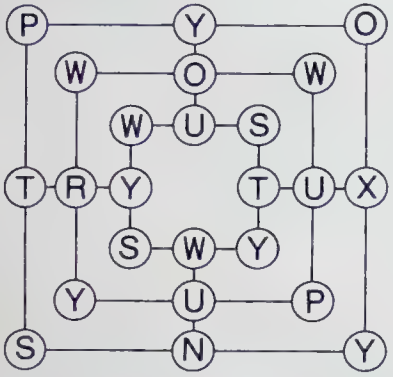
Through the Mill

from March/April

The object of "Through the Mill" was to form 16 different three-letter words across and down in a "Mill" grid, while using the highest scoring letters possible under the valuation system A = 1, B = 2, . . . Z = 26. Of the 8,300 entries we received, 84 tied with a high score of 495 (the sum of the values of the 24 letters in the grid). The winner, by random drawing, is Michael Wolfberg of Concord, MA. He will receive first prize of a Sinclair ZX80 personal computer. Honorable mention prizes of a *Games* T-shirt go to: Kyle Corbin of Raleigh, NC; Craig Hamer of Chesterfield, MO; Gene Nygaard of Alexandria, VA, and Robert Zweiben of Windsor, CT.

All words in the winning grid are found in *Webster's Third* (Unabridged). PTS is the plural of PT, a variant of PT BOAT (listed as a noun rather than an abbreviation); WYS is the plural of WY, a variant listed under WYE; and the rest are listed normally. —R.W.S.

The winning entry



Name That Magazine

from March/April

The object was to capture the essence of *Games* in a brief subtitle—and from the 4,400 subtitles we received, our essence appears to be either zany or serious, recreational or educational, relaxing or nerve-racking. All of which is as it should be. A lot of everything and a little bit of nothing. . . .

The first prize, a lifetime subscription to *Games*, goes to Tony Wilson of Louisville, KY. Runner-up prizes of a year's subscription to *Games* go to Randall Graeff of Hawthorne, NJ; Rebecca Holtzman of Bronx, NY; Carol McClellan of Laurel, MD; and Tim Orcutt of Erie, PA. And the winning subtitles? You'll find them and some of the other very good ones we received on our covers over the next few years, with acknowledgments to their contributors in the Table of Contents that issue. —R.W.S.

Hidden Contest

from January/February

Having survived countless "rattlesnake egg" attacks, dusted off exploding talcum powder, and overcome an unfounded fear of ticking brown packages, we've finally chosen the winners of the "funny and harmless" Hidden Contest. The contest was located on pages 60-61, where the 17 Eyeball Bender clues read, "These are not/Really!/The usual clues/But the hidden / Con / Test / Mail / Something/Funny and harmless/Quickly to us/50 biggest/Laughs/Before February/Sixth win/Games/T-shirts/!!!!" Quite a few of you took us literally, sending reams of "Ha-Has," the words "Something Funny and Harmless," gigantic "LAUGH" banners (the biggest was 22,012.75 square inches), and even a Wacky Wordy calendar with the "50 biggest laughs before February 6." One of you sent us the real thing—a 10 minute tape of non-stop laughter.

Like Art Linkletter, some found that kids say the darndest things. A teacher asked her 5th grade students, "Who is Michael Donner?" One student naturally assumed it was "the full name of Santa's reindeer, Donner," while another guessed that "he helped the British attack Pearl Harbor."

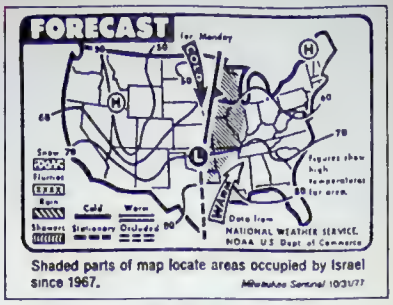
Another entry listed the more outrageous answers to high school exams over the years, including: "For snake bite: Bleed the victim and then rape the victim in a blanket for shock," and, "The pistol of a flower is its only protection against insects."

Maybe we should have used the flower pistol on the hundreds of bad jokes and cartoons we received. Cat, ethnic, elephant, risqué (the ribald highlight was *Gamey*, a full-size parody issue of *Games*) and such others as pushed our laugh meters to the limit. Fortunately, our circuitry was saved by a few lively sparks such as the following:

Two aliens land in the backyard of a suburban house, and one peers through a living room window. He reports, "The way I figure it, the tall one is the male, the one with the long hair is the female, and the one with the glass face that does all the talking is the boss."

Then there was the cartoon of a family of four sitting around a dinner table, with the father announcing, "Inflation being what it is, I'm going to have to let two of you go."

The visual jokes and gags were also a mix of bad and good, snapshots, laugh machinery, funny glasses, and unmentionables—a few of which are reproduced here. Although we can only report on a small sample of the items received, we were overwhelmed and entertained by some 2,800 entries. —G.D.



Shaded parts of map locate areas occupied by Israel since 1967.

A classic Laundry Basket

Never met a linebacker that could lick me

Did you ever have one of those days?

The 50 winners:

Frank Ascione, Staten Island, NY; Chris Belford, Arlington Heights, IL; Betty Cahall, Danville, KY; James Cambron, Kansas City, MO; Gene Capone, Altoona, PA; Katy Carnegie, Lockport, NY; Ken Cavalli, San Jose, CA; Stanley Cohen, Ridgewood, NJ; Jane C. Cooke, Gambrills, MD; Kyle Corbin,

(Continued on page 64)

First Prize
$100, or $20 per letter in the winning word, whichever is greater.
Four Honorable Mention Prizes
A Games T-shirt.

A GAMES CONTEST

WHAT'S THE GOOD WORD?

TRY TO OUTGUESS EVERYONE ELSE WHO READS THIS

Pick a word, any word—as long as it is a **boldfaced** entry in *Webster's Third* (see "Acceptable Words," below). Then, just write the word on your entry blank and send it in

The word we receive that comes first alphabetically will win, *provided*—and this is a big proviso—that no one else submits that same word. That is, the winner will be the nonduplicated word that comes first alphabetically.

Acceptable words Any word appearing in boldfaced type in the main body of *Webster's Third New International Dictionary* (Unabridged) is acceptable, except for words listed only as abbreviations, prefixes, or suffixes. Capitalized words, hyphenated words, words with accent marks or internal punctuation, and even phrases of two or more words that comprise a single entry are all fair game, provided they appear in boldface. Words listed only in the Addenda are not acceptable.

Alphabetical order and duplication of entries In determining alphabetical order of words and in comparing words for duplication, *only the letters in the words will count.* Hyphens, capital letters, accent marks, and spaces between words in phrases will all be ignored. Thus, the words BLACK OUT and BLACKOUT would be considered duplicates of each other and would each be given the same alphabetical ranking. If two words have the same spelling but different meanings and are given separate boldfaced entries, they will nonetheless be considered as one and the same word for the purposes of this contest.

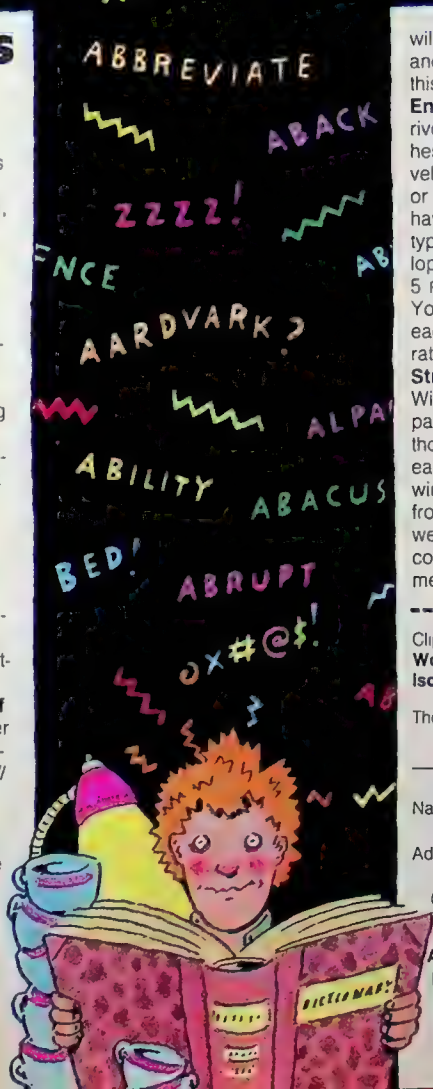


Illustration by Steven Guarnaccia

Entering To be valid, entries must: (i) arrive by mail, with postage paid by an adhesive postage stamp affixed to the envelope (rather than by metered postage or government franking privileges); (ii) have the entered word legibly printed or typed on the reverse side of the envelope; and (iii) be received no later than 5 P.M., Eastern Standard Time, 8/3/81. You may enter as often as you wish, but each entry must be mailed under separate cover

Strategy Your guess is as good as ours. Will everyone pass up words on the first page or two of the dictionary, expecting those words to be duplicated, so that an early word like AARDVARK sneaks in as the winner? Or will the winning word come from much farther into the book? Frankly, we're curious, and we look upon this contest in part as a fascinating experiment in group strategy.

Clip or copy this coupon and mail to. **Good Word Contest, Games Magazine, 515 Madison Avenue, New York, NY 10022.**

The word I am submitting is

_____

Name _____

Address _____

City _____ State _____ Zip _____

Entries must be received by 5 P.M. EST, August 3, 1981. All entries will become the property of *Games.* None will be returned.

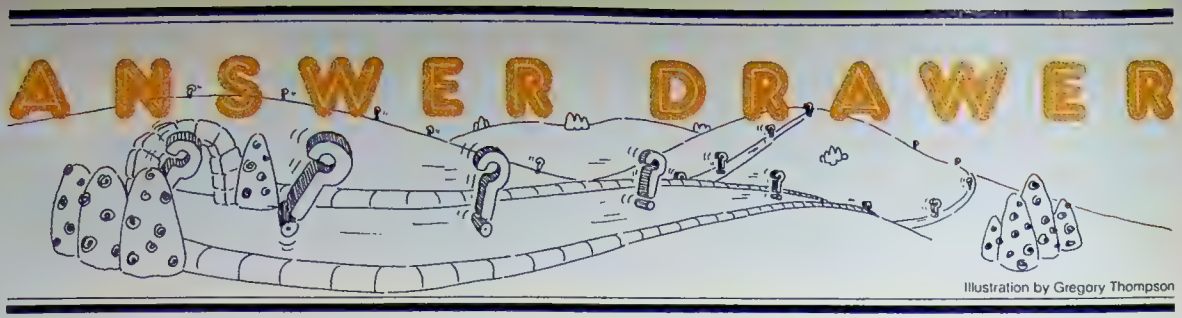


Illustration by Gregory Thompson

Cover

For more Eyeball Benders from space and an explanation of the colors in the photographs, see pages 56–57.

(Clockwise from upper left)

Los Angeles. The metropolitan area is at the lower right. Numerous fault lines appear as grooves in the surrounding mountains and valleys, the famous San Andreas fault is the line running left-right just above the brown area in the center

The island of Hawaii. The most outstanding features are the volcanoes Mauna Loa, in the center of the dark blue area in the middle of the island, and Mauna Kea, further north. Through the cloud cover, part of Hilo Bay can be seen on the northeast shore

Boston and Cape Cod. The light blue region in the upper left is Boston. Beneath the Cape are the islands of Martha's Vineyard (left) and Nantucket (right). Halfway up the left edge is Providence, Rhode Island.

New York City and Long Island The Hudson River prominently marks the west side of Manhattan. Staten Island is seen to the southwest. On the left of the photo (below the middle) is Trenton, New Jersey, on the Delaware River. The white lines along the Jersey and Long Island coasts are various barrier islands and peninsulas.

❹ Letters

Beyond Red Herrings

1. Babe the Blue Ox
2. The quick brown fox
3. The Old Gray Mare
4. Red Pony
5. Four-and-twenty blackbirds

Burma Shave Signs Off

Mr. Rios' message is: Contests and puzzles had me perplexed; What will you people think of next?

❽ Gamebits

What Foods These Morsels Be

The fake foods are the beer, the cherry pie, the French bread, the sirloin steak, the green beans, the potato with butter, the cantalope, the ice cream sundae, and the cubed bleu cheese.

⓮ Rock 'n' Roll Revival

Sunday: **The Rolling Stones** and **Cream**
Monday: **The Temptations** and **Iron Butterfly**
Tuesday: **The Doors** and **The Grateful Dead**
Wednesday: **Led Zeppelin** and **Aerosmith**
Thursday: **The Eagles** and **The Mothers of Invention**
Friday: **Three Dog Night** and **Manhattan Transfer**
Saturday: **The New Riders of the Purple Sage** and **The Electric Light Orchestra**

Lyrics, left to right, from:
"People Are Strange" by The Doors
"SWABLR" by Cream
"Uncle John's Band" by The Grateful Dead
"Sympathy For The Devil" by The Rolling Stones
"One of These Nights" by The Eagles

⓴ Split Personalities

The politicians pictured in each photo are, from top to bottom:

1. Ronald Reagan, Lyndon Johnson, Jimmy Carter
2. Alexander Haig, Gerald Ford, Johnson
3. Carter, Richard Nixon, Ford
4. Johnson, Haig, Reagan
5. Nixon, Carter, Haig
6. Ford, Reagan, Nixon

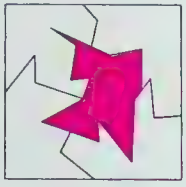
⓰ Beguilers

Nasty Letter

The G does not belong, because part of its shadow is missing

Pieces at Hand

The red piece fits in the hole, as shown.



Turnabout

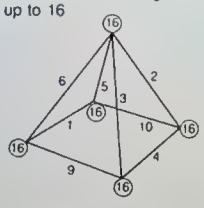
The word in the lower right, when held up to a mirror, says "something."

Balancing Act

Five triangular blocks will balance the square block By doubling everything on the first (top) scale, we see that (i) 2 square blocks + 2 triangular blocks = 2 round blocks. From the third scale, we know that 2 round blocks = 3 rectangular blocks; therefore, (ii) 2 square blocks + 2 triangular blocks = 3 rectangular blocks By doubling everything on the second scale, we see that (iii) 2 square blocks = 2 triangular blocks + 2 rectangular blocks. Replacing the 2 square blocks in equation (ii) with their equivalent as stated in (iii), we get: 2 triangular blocks + 2 rectangular blocks + 2 triangular blocks = 3 rectangular blocks, or (iv) 4 triangular blocks = 1 rectangular block. By replacing the rectangular block on the second scale with 4 triangular blocks, we now see that one square block = 5 triangular blocks

The Magic Pyramid

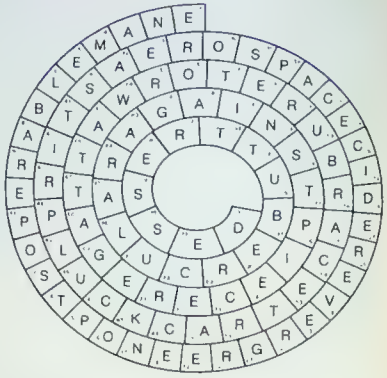
When labeled as shown, the edges meeting at each vertex add up to 16



Strip Tease

There are 12 strips shaped like a figure eight and 12 strips that are circular, making a total of 24 strips.

㉑ The Spiral



㉒ Royal Flush

㉘ A Messy Desk Word List

ASHTRAY
ASPIRIN
CALCULATOR
CALENDAR
CIGARETTES
CLOCK
COCA-COLA
DICTIONARY
GLUE
GUM
HOLEPUNCH
KEYS
LAMP
LETTER OPENER
LIGHTER
MAGNIFYING GLASS
NEWSPAPER
PENCIL
RUBBER BANDS
RUBIK'S CUBE
RULER
SCISSORS
STAPLER
TELEPHONE
THEATER TICKETS

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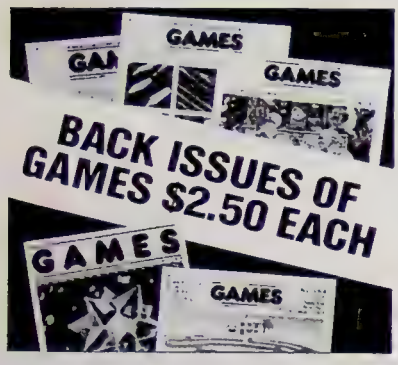

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㉓ Musical Medley

L	A	M	B		A	S	Y	E			R	U	S	T
O	N	O	R		G	L	A	S	S		O	L	E	O
S	T	R	I	K	E	U	P	T	H	E	B	A	N	D
S	I	N	G	I	N	G			O	V	E	R	D	O
			A	N	T	S		D	O	E	R			
	M	O	N	K	S		P	A	I	N	T	E	R	S
S	A	N	D	Y		W	A	R	N	S		R	U	E
O	U	T	S		M	A	R	E	S		M	O	L	E
A	V	A		P	A	N	T	S		C	E	D	E	D
R	E	P	R	I	N	T	S		L	A	G	E	R	
			A	A	A	A		S	A	R	A			
S	T	R	I	N	G			T	W	O	B	I	T	S
T	H	E	S	O	U	N	D	O	F	M	U	S	I	C
E	R	I	E		A	E	I	O	U		C	O	M	O
P	O	N	D			W	E	L	L		K	N	E	W

㉘ Beyond Wacky Wordies

1. Stacked deck
2. Life of ease
3. Holy mackerel!
4. Straw vote
5. Inflated ego
6. Sloppy joes
7. Rule of thumb
8. T-squares
9. Inverted pyramid
10. Spinal cord
11. Spring fever
12. Checkered past
13. "Me and My Shadow"
14. Writer's block
15. Monograph
16. Hollywood and Vine
17. Striped bass
18. Coconuts
19. Knotty pine
20. Bagpipes
21. Dotted swiss
22. *Oliver Twist*
23. Comic strips
24. Dead Sea Scrolls
25. Chief of staff
26. Stereotyped
27. Screen test
28. Old English sheepdog
29. All-star game
30. "Amazing Grace"

㊵ Double Cross

A. NONPROFIT
B. EMBROIDERY
C. SASSAFRAS
D. SHULA
E EMERGENCE
F. NIGHTSTAND
G. POLYHEDRAL
H OVERLOOKED
I. LAWYER
J. INTERBREED
K. TREATY
L. INSTITUTE
M. CHRYSANTHEMUM
N. ARCHAEOLOGY
O. LHASA
P. WHITEFISH
Q. INVITATION
R SWATOW
S EFFEMINATE
T COOKHOUSE
U. RUBBERNECK
V ABHORRENT
W. CROW'S NEST
X. KLEPTOMANIA
Y. SUBSTITUTE

The best humorous story teller among the politicians of this century was Alben Barkley of Kentucky. Mr Barkley, Mr. Truman's Vice President, is famous for his line about two brothers: one ran away to sea, the other was elected Vice President, and nothing was heard of either again —(Ron) Nessen, *Political Wisecracks*

㉕ Dollar Signs In Your Eyes

P	R	A	M		P	R	I	Z	E	$		M	O	C
L	E	N	A		R	E	S	O	R	B		I	N	A
A	S	S	T		A	M	O	E	B	A		N	A	B
Y	O	W		E	T	O	N		A	G	E	N	T	
$	L	E	N	D	E	R				S	E	E	R	S
	D	R	E	I		A	S	E	A		K	L	A	N
			O	C	T		P	I	N	$		L	I	U
$	I	S	N	T	E	V	E	R	Y	T	H	I	N	G
A	D	A		S	E	A	R		A	A	A			
R	E	C	S		S	T	O	P		L	I	S	A	
E	A	R	T	H				A	N	K	L	I	N	G
	L	I	N	U	S		A	L	I	S		E	G	O
T	I	S		S	H	A	M	A	N		A	R	L	O
E	S	T		H	O	R	A	C	E		D	R	E	D
A	M	Y		$	O	R	D	E	R		M	A	D	$

㊲ Inflation

	M	A	N	O	R		U	S	E	L	E	S	S	
S	A	L	I	N	E		P	A	R	A	G	O	N	
E	N	A	C	T	S		S	T	O	P	O	N	A	Q
R	I	S	K		O	G	E	E	S		G	R	U	N
F	A	K	E		L	E	T	S		S	O	B	E	I
S	C	A	L	P	E	L	S		C	I	V	I	S	T
		A	I	D			S	O	R	E	R		R	A
S	T	I	L	E		P	U	M	P	E	R	D	I	M
T	U	N	I	C		A	N	I	P		C	O	E	
O	N	I	N	E		R	U	L	E		S	H	E	L
M	I	T	E		L	A	S	E	R		P	O	P	E
A	S	I	R		U	S	U	R	Y		I	R	I	S
C	I	A		Z	O	A			T	A	C	T		O
H	A	L	F	D	O	L	L	A	R	B	A	C	K	S
		I	A	N		L	O	R	N	E		C	O	M
P	A	N	G	S		C	A	L	L	E	D		C	L
O	T	I	S		V	A	R	I	E	D		F	O	I
I	T	A		C	A	R	T	A		W	O	R	L	D
N	I	C	K	E	L	P	I	N	C	H	E	R	S	
T	R	I	O	D	E		S	C	A	L	E	N	E	
S	E	N	S	E	S		T	E	N	S	P	O	T	

㉔ Dszquphsbnt!

1. CRYPTOON. "Our new contract calls for ingenuity, clear thinking, and hard work. That's why I called you in. I want you to resign."

2. VIVE LA DIFFERENCE! An abstract painting by Matisse hung upside down in an art museum for a month before the error was noticed.

3. BUT STILL UNIQUE. Whatever you may be sure of, be sure of this—that you are dreadfully like other people. James Russell Lowell

4. BIRD LORE. The curlew flies over water much of the time. It's good he can go non-stop for over two thousand miles since he can't swim.

5. NOT SO SIMPLE. There's always an easy solution to every human problem—neat, plausible and wrong, said H L. Mencken, Sage of Baltimore

6. LIKE SNAKE OIL. Ketchup once was sold as a patent medicine, Extract of Tomato, an elixir for relieving many human ills

7. CASH HELPS. It may be true that money cannot buy happiness, but it can help you search for it in a lot more places

㉓ Married Women

1. Sarah (Miles) + (Ralph) Nader = Serenader
2. Ida (Lupino) + (Don) Ho = Idaho
3. Rose (Kennedy) + (Billy) Budd = Rosebud
4. Belle (Starr) + (Timothy) Bottoms = Bell-bottoms
5. Bo (Derek) + (Danny) Kaye = Bouquet
6. Bea (Arthur) + (Christopher) Reeve = Bereave
7. Lindsay (Wagner) + (David) Doyle = Linseed oil
8. Anna (Freud) + (Franz) Liszt = Analyst

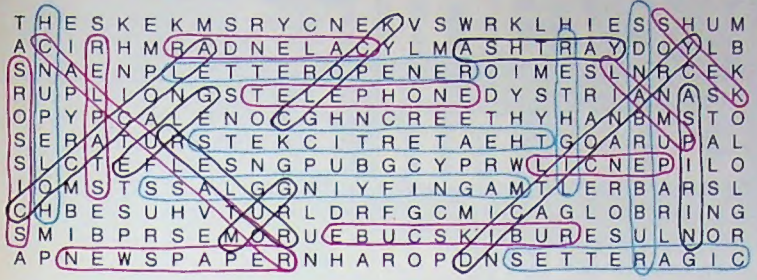
㉕ Fractured Rebus

The answer is REBUS. The pictures may be arranged as follows (the exact order is flexible).
FIREPLACE – CALF + LOCKS – O + BUN – PENCIL – K = REBUS

㊶ Word for Word

R	E	B	U	I	L	T		J	A	V	A	S	E	A
O	P	E	N	F	O	R	B	U	S	I	N	E	S	S
M	I	N	D	Y	O	U	R	P	S	A	N	D	Q	S
A	C	C		O	P	T	I	O	N		E	A	U	
N	E	H	R	U		H	A	N		T	I	B	E	R
S	N	E	E		K	O	N		C	H	A	I	R	E
E	D	G	I	E	R		T	H	I	E	V	E	R	Y
		A	N	Y		P	I	E	R	R	E		G	L
S	O	L	D		S	T	E	R	E	O		A	N	O
C	O	V	E	Y		T	B	I	R	D		G	L	A
O	N	E	S		C	R	O	N	Y		C	L	I	M
M	G	R		R	H	E	A	S		P	L	A	C	E
B	O	H		E	R	A	T		F	L	A	S	H	E
O	F	A		W	O	K	S		L	A	S	S	E	R
I	N	A	R	M	S		J	E	N	S	E	N		J
T	O	D	D	A	O		D	O	A	K	E	S		D
S	W	E	E	P		B	O	S	C			B	A	I
P	A	D		P	S	Y	C	H	I	C		K	E	N
	P	E	T	E	S		R	A	T	R	A	C	E	S
C	I	C	A	D	A			C	R	O	A	K	E	D
Z	O	O	M		K	O	H	O	U	T	E	K		
E	O	N		P	E	R	I	L	I	S		S	A	R
C	O	W	A	R	D	I	C	E		O	H	T	O	B
H	O	A	R	E		B	E	N		T	O	O	T	T
S	O	Y	U	Z		I	T	T		B	E	A	C	O

28 A Messy Desk (Part 1)



39 Cryptic Warm-Up Puzzle

ACROSS

1. CHAMP. The letters of CHAP ("fellow") surrounding ("eating") the letter M ("piece of meat") form the answer, CHAMP ("to chew vigorously").
4. MEDAL. The word MEDAL ("Olympic award") sounds the same as MEDDLE ("tamper"). The phrase "we hear" indicates the homophone.
5. STRIP. The word STRIP ("band," in the sense of a narrow piece of cloth) is the letter S ("ship's first") plus TRIP ("voyage").

DOWN

1. CAMUS. The name CAMUS ("author of *The Stranger*") reading down spells SUMAC ("tree") reading up ("climbing").
2. ADDER. The letters of DREAD in "unnatural" order spell ADDER ("snake").
3. POLYP. The word POLYP ("small sea creature") is literally found in "roly-POLY Porpoises."

39 Cryptic Crossword

ACROSS

1 Calisthenics (in the classic)
8 Reverie (Revere + i)
9 Arbiter (rarebit)
11 Spree (see + PR)
12 Fatheaded (Theda deaf)
13 Casserole (loses race)
15 Poles (two meanings)
16 Urges (oUR GESture)
18 Desperado (road speed)
20 Sharpener (Pen + sharer)
23 Aisle (I'll)
24 Smitten (s + mitten)
25 Courage (our + cage)
26 Frankenstein (tanner's knife)

DOWN

1 Caverns (cans + very − y)
2 Largeness (lass + green)
3 Sheaf (she + a + f)
4 Heartless (she's alert)
5 Noble (piaNO BLEakly)
6 Citadel (dialect)
7 Crash courses (two meanings)
10 Rediscovered (Red + is + covered)
14 Ordinance (Darien con)
15 Premature (E.R.A. term up)
17 Glazier (g + lazier)
19 Abstain (a ban sit)
21 Put-on (not up)
22 Rocks (two meanings)

53 Call Our Bluff

The phony Piltdown stories are "Hitting Stride," "Whale of a Tale," and "You Only Go Around Once."

The true stories—Greek Drama, Investigate Before You Invest, Mrs. Czermak's Descent, A Difficult Patient, Harassment, Traffic, Hare Trigger, Liebestodt, Dead Ducks, and Walking Iron Mine Collapses—are reprinted from *True Remarkable Occurrences* by John Train. Copyright © 1978 by John Train. By permission of Clarkson N. Potter, Inc.

38 Trailblazer

The path begins in square A1 (low number—14) and proceeds to square E2 (high number—47).

	A	B	C	D	E	F
1	14	37	36	35	34	33
2	15	38	39	40	47	32
3	16	X	42	41	46	31
4	17	18	43	44	45	30
5	20	19	24	25	28	29
6	21	22	23	26	27	X

18 It Costs an Arm and a Leg

First, to make things clear as glass: a fiddle is a pretty sturdy folk instrument built by fit folk. A loon isn't so crazy; sure it has a weird call, but that doesn't make it Bellevue material. A wink is very quick in duration: usually from .28 seconds to .1 seconds. An owl isn't particularly wise, falling somewhere in intelligence between a chicken and an elephant. The Irish are about as lucky as anyone else, although the Notre Dame football team is often in the Top Ten. And now for the quiz:

1. b, A bat is partially blind.
2. c, Clonmel, Tipperary, in Southern Ireland, is 3,381 miles from Manhattan.
3. a, A comedy sketch on prime time TV shows like *The Carol Burnett Show* costs $889 minimum.
4. d, At a mannequin supply house, arms go for $18.50, legs for $100.
5. b, The average adult's belly holds two quarts.
6. c, Blonds average 140,000 hairs on their heads. (Brunettes average about 105,000 hairs, redheads about 90,000 hairs, and the hairs on an ex-catcher's head vary.)
7. a, The early bird rises about a half hour before dawn.
8. d, The moon is on the average 238,857 miles from earth.
9. b, The skin is $\frac{1}{16}$ to $\frac{1}{8}$ inch deep.
10. c, Land snails move about two inches a minute.
11. c, Lightning moves 299,792 kilometers per second (the speed of light).
12. a, Swallows return to Capistrano annually on March 19 (and leave promptly on October 23).
13. b, Fish drink like teetotaler Carry Nation. (Fresh water fish don't drink water, they absorb it; alcohol kills them.)
14. a, Duckfeathers are .013 to .063 grams.

Questions from *Easy Answers to Hard Questions* (Fawcett Columbine, New York). © 1979 by Randy Cohen.

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41 A Messy Desk (Part 2)

1. 11:36
2. July
3. Electric
4. About 5.00
5. Yes
6. Four
7. Yes
8. Scissors
9. Bayer
10. Mostly full
11. Wrigley's Spearmint
12. Yes
13. Two
14. No
15. Four
16. Right-handed
17. MasterCard (note the bills)
18. 858-7478

44 Letter "S" Picture Test

The "S" word pairs were:

1. Sale, ale
2. Schick (razor), chick
3. Scoop, coop
4. Shay, hay
5. Shoe, hoe
6. Shooter, hooter (owl)
7. Shovel, hovel
8. Sink, ink
9. Sledge, ledge
10. Snail, nail
11. Soil, oil
12. Spine (on book), pine
13. Spot, pot
14. Stable, table
15. Stack (of hay), tack
16. Stool, tool
17. Stopper, topper (hat)
18. Strap, trap
19. Swine, wine

56 Eyeball Benders in Orbit

1. *San Francisco, California.* The Golden Gate Bridge is the thin line across the water near the left edge; the small dot to the right of the bridge is Alcatraz; the reddish area below the bridge is the Presidio, and below that Golden Gate Park.

2. *Chicago, Illinois, and southern Lake Michigan.* Nearby cities such as Gary, Indiana can also be seen, as well the Des Plaines and Kankakee Rivers.

3. *Southern Florida.* The dark area in the center is the Everglades, made up mostly of tall sawgrass; the red splotches are islands of hardwood trees. Visible on the east coast are Miami and surrounding cities.

4. *Washington, D.C., and Baltimore, Maryland.* The nation's capital can be seen near the point where the Potomac River becomes the Potomac estuary. To the northeast lies Baltimore, on Chesapeake Bay.

5. *Mississippi Delta.* The longest river on the continent is seen here emptying into the Gulf of Mexico. The subdelta, which has expanded 12 miles into the Gulf in the past 100 years, extends from the river's mouth. The city in the upper left is New Orleans.

6. *Puget Sound and Seattle, Washington.* The city of Seattle is visible near the center of the photo, with Puget Sound to the west and Lake Washington to the east.

7. *Grand Canyon, Arizona.* Located near the center of the photo, this famous landmark, carved from the earth by the Colorado River, is roughly 12 miles across. Just north of the canyon is the snow-covered Kaibab Plateau, the white area in the southeast marks the San Francisco Peaks and surrounding lava flows.

8. *Buffalo, New York, and Toronto, Ontario.* Niagara Falls is located on the Niagara River, which links Lake Ontario (top) with Lake Erie (bottom). Buffalo is at the upper right corner of Lake Erie; and Toronto, on the north shore of Lake Ontario. The white dots are cumulus clouds.

9. *Juneau, Alaska.* Juneau is located on the Gastineau Channel, one of many glacial fjords.

10. *Outer Banks, North Carolina.* The barrier beaches off the mainland include Roanoke Island, site of the famed Lost Colony, and nearby Kitty Hawk, where the Wright Brothers flew.

11. *The U.S.-Soviet border.* The land mass on the left is Siberia; on the right, Alaska. The large Soviet island in the center, Big Diomede, is only three miles from Little Diomede, the small U.S. island next to it. The irregular arc of blue-white in the Bering Strait is probably a line of sea ice.

Photos are from NASA's Landsat program, courtesy of General Electric Photographic Lab. These and nearly 400 other color photos showing views from all around the world, appear in the book *Mission to Earth: Landsat Views the World* (NASA 1976), available for the astonishing low price of $14 from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Fake Advertisement

The "Fake Ad" announced in the Table of Contents was for the "Out" spot remover and appeared on page 29.

Contest Winners *(Continued from page 58)*

Raleigh, NC; Joeldine DeCourcey, Cambridge Springs, PA; Karen Dupre, Rye Beach, NH; James Evans, Newark, DE; Brian Finley, Rockland, ME; Dr. William Fleming, Huntsville, TX; Ferne Friedman, Huntington Valley, PA; Mari-Viola Furno, Utica, NY; Carin Goo, Kaneohe, HI; Richard Gottshall, Franklin, IN; Gwen Hammack, Los Angeles, CA; Vicki Hostler, Platte, SD; Ken Hubel, Detroit, MI; Matthew Kalgreen, Akron, OH; Pat Kenow, New Memphis, IL; Sara Kinburn, New York, NY; J. R. Littler, Pasadena, CA; Mary Ellen Lyons, Monterey Park, CA; Linda Mendosa, Martinez, CA; Hal Mermelstein, South Windham, ME; Clifford Miller, Dallas, TX; Emily Miller, Lima, OH; Renee Miller, North Dartmouth, MA; Mark Moldowsky, Huntington Station, NY; Frank Mozina, Bedford, TX; Douglas Oliver, Edison, NJ; Irene Replogle, Hopkins, MN; Bill Ross, Dunedin, FL; Grace Sanford, Las Vegas, NV; Lauren Schnitzer, Rye, NY; Thomas L. Scott, Conshohocken PA; Scott Smith, Colorado Springs, CO; John F. Stearns, Marina del Rey, CA; Christopher Strom, Arlington Heights, IL; Deborah Sunick, Aston, PA; Lynda Sweeting, Miami, FL; Diane Thompson, Saginaw, MI; Frank Thompson, Largo, FL; Linda Wantz, Linden, VA; Don Ward, Oklahoma City, OK; Michael Williams, Virginia Beach, VA

EUREKA

EUREKA is dedicated to those venturesome spirits who, never settling for a ready answer, have fought their way to a better, more elegant, or more complete solution than one previously given in the Answer Drawer.

★ **How Should I Catch These Letters ...?** (March/April, Cover). Kyle Corbin of Raleigh, NC, has found 129 relatively common words of eight or more letters that can be made from the letters of AMBIDEXTROUSLY, and he has found more than twice that many less common words. Of words not listed in our Answer Drawer, his longest find was OXYMURIATES (11 letters). The longest common words he found were SUBLIMATOR and TILEBOARDS (10 letters), followed by ABSOLUTER, DESULTORY, DRUMBEATS, DYSLEXIAC, EMULATORS, IDOLATERS, MAILBOXES, ROYALTIES, SEXUALITY, SIMULATOR, SUBLIMATE, and TILEBOARD (9 letters).

★ **Pic Tac Toe** (March/April, page 18). Mary and Brian Hutchins of Haslett, MI, have suggested an alternative theme for horizontal row 1-2-3, which pictures Tarzan, Bo Derek, and George Washington. Instead of "trees," they suggest "swingers"—Tarzan swings from trees, Bo plays a "swinger" in *"10"*, and George swings an ax.

★ **Sčítání** (March/April, page 27). Dave Branigan of Chicago, IL, has found an alternative solution to our numerical cryptogram. His solution requires that all numbers be in base six—but considering that we ran the instructions in Czech, how can we fault him?

0—tulipán	20000
1—bledule	22030
2—růže	+ 14030
3—astra	100100
4—koukol	

★**500 Rummy** (March/April, page 32). A number of readers have found additional words not listed in our May/June Answer Drawer (page 72). Among them are Bryan Audsley of Lexington, MO, who found both ROTUNDO (a variant of "rotunda") and ROTULAD (meaning "toward the patella"), and Ellen Buxton of Dallas, TX, who sent in REGREET ("to greet again"). Other interesting submissions, but not listed in *Webster's Third*, include EMBLIFY, LADYFLY, and RAGLADY.

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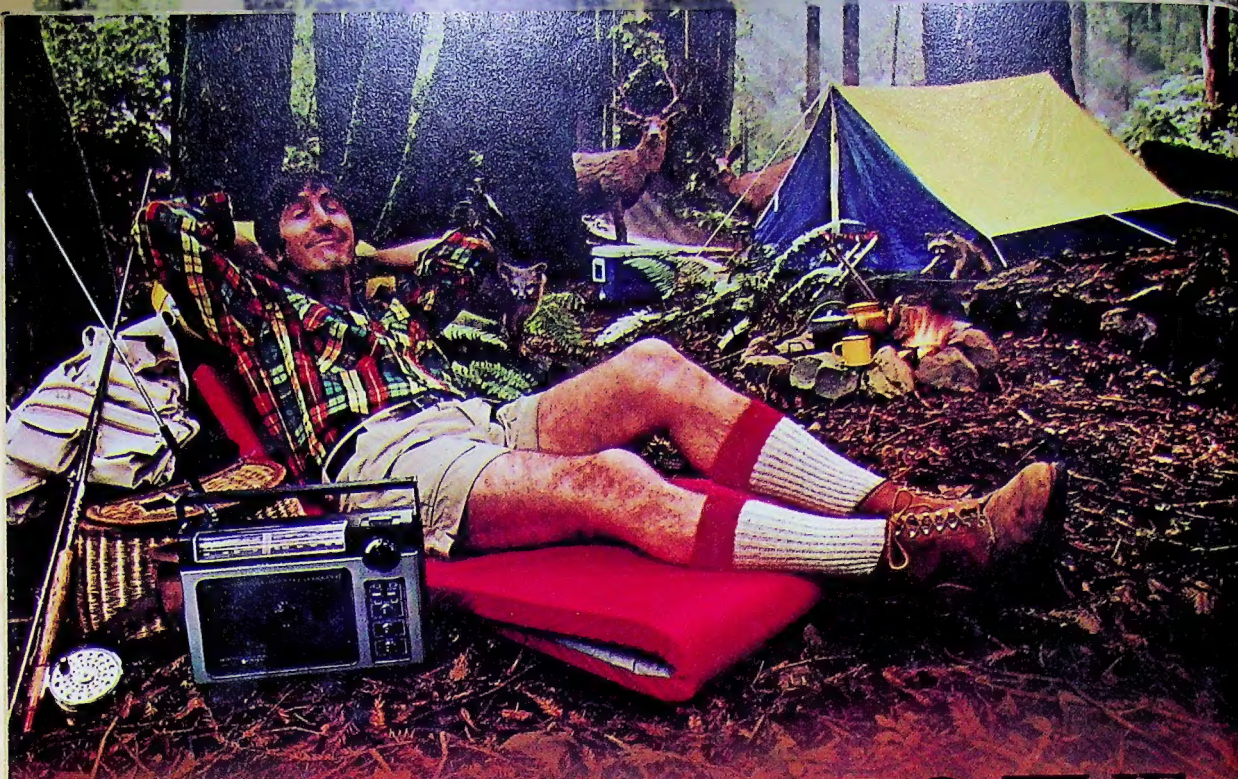

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